

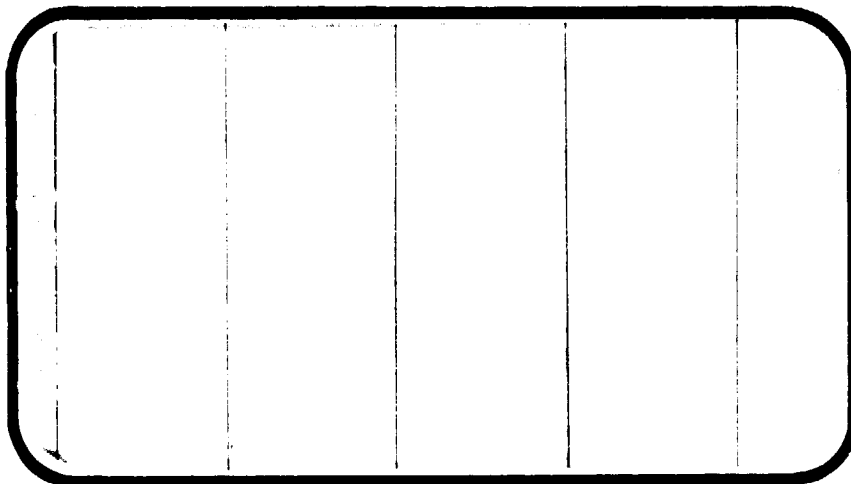


NASA

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-

141510



(NASA-CR-141510) RESULTS OF INVESTIGATION  
ON AN 0.015 SCALE CONFIGURATION 140A/B SPACE  
SHUTTLE VEHICLE ORBITER REACTION CONTROL  
SYSTEM PLUME-IMPINGEMENT MODEL 36-0 IN THE  
NASA/AMES RESEARCH CENTER 3.5-FOOT (Chrysler G3/18

N75-19333

Unclass  
14322

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER  
CORPORATION

March, 1975

DMS-DR-2177  
NASA CR-141,510  
RESULTS OF INVESTIGATIONS ON AN 0.015-SCALE  
CONFIGURATION 140A/B SPACE SHUTTLE VEHICLE  
ORBITER REACTION CONTROL SYSTEM  
PLUME-IMPINGEMENT MODEL 36-0 IN THE NASA/AMES  
RESEARCH CENTER 3.5-FOOT HYPERSONIC  
WIND TUNNEL (OA83)

By

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Prepared under NASA Contract Number NAS9-13247

By

Data Management Services  
Chrysler Corporation Space Division  
New Orleans, La. 70189

for

Engineering Analysis Division  
Johnson Space Center  
National Aeronautics and Space Administration  
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 3.5-194  
NASA Series Number: OA83  
Model Number: 36-0  
Test Dates: 3 through 16 May 1974  
Occupancy Hours: 128

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Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

RESULTS OF INVESTIGATIONS ON AN 0.015-SCALE  
CONFIGURATION 140A/B SPACE SHUTTLE VEHICLE  
ORBITER REACTION CONTROL SYSTEM  
PLUME-IMPINGEMENT MODEL 36-0 IN THE NASA/AMES  
RESEARCH CENTER 3.5-FOOT HYPERSONIC  
WIND TUNNEL (0A83)

By M. E. Nichols, Rockwell International Space Division  
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ABSTRACT

This report documents the results of aerodynamic pressure and wing-root bending-moment testing conducted on an 0.015-scale Configuration 140A/B Space Shuttle Vehicle Orbiter Reaction Control System (RCS) plume-impingement model (#36-0) in the NASA/Ames Research Center 3.5-Foot Hypersonic Wind Tunnel, from 3 through 16 May 1974.

This test was carried out as NASA series number 0A83 and tunnel test number 194.

The model was investigated at nominal Mach numbers of 5.3, 7.3, and 10.3, at unit Reynolds numbers of  $4.2 \times 10^6/\text{ft}$ ,  $7.3 \times 10^6/\text{ft}$ , and  $1.7 \times 10^6/\text{ft}$ , respectively. Model attitude was varied in angle of attack from  $18^\circ$  to  $38^\circ$  at angles of sideslip from  $-2^\circ$  to  $+2^\circ$ .

The purpose of this test program was to establish and reaffirm incremental Orbiter pressure-profile and structural-loads data due to operation of the aftbody Reaction Control System pitch-down engines. No configuration-buildup program was carried out, but RCS plume simulation

required various nozzle configurations based on altitude and Mach number matching.

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NOMENCLATURE  
General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
$a$		speed of sound; m/sec, ft/sec
$C_p$	CP	pressure coefficient; $(P_1 - P_\infty)/q$
$M$	MACH	Mach number; $V/a$
$P$		pressure; $N/m^2$ , psf
$q$	Q	dynamic pressure; $1/2\rho V^2$ , $N/m^2$ , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
$V$		velocity; m/sec, ft/sec
$\alpha$	ALPHA	angle of attack, degrees
$\beta$	BETA	angle of sideslip, degrees
$\psi$	PSI	angle of yaw, degrees
$\phi$	PHI	angle of roll, degrees
$\rho$		mass density; $kg/m^3$ , slugs/ft <sup>3</sup>

Reference & C.G. Definitions

$A_b$		base area; $m^2$ , ft <sup>2</sup>
$b$	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\bar{L}_{REF}$	LREF	reference length or wing mean aerodynamic chord; m, ft
$S$	SREF	wing area or reference area; $m^2$ , ft <sup>2</sup>
	MREF	moment reference point
	XMREF	moment reference point on X axis
	YMREF	moment reference point on Y axis
	ZMREF	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
$\infty$	free stream



NOMENCLATURE (Continued)  
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$C_{\ell W}$		wing-root roll-axis bending moment coefficient about $Y_{WRC}$
$C_{\ell WI}$		wing-root roll-axis bending-moment coefficient about inboard gauge
$C_{\ell WO}$		wing-root roll-axis bending-moment coefficient about outboard gauge
$C_{m W}$		wing-root pitch-axis bending-moment coefficient about $X_{WRC}$
$C_{m WG}$		wing-root pitch-axis bending-moment coefficient about gauge
$C_{N W}$		wing normal-force coefficient
$C_{p i}$		pressure coefficient for model orifice i
$d_G$		wing-root gauge span, distance between inboard and outboard gauges, in.
$l_B$		reference body length, in.
$M_{\ell W}$		wing-root roll-axis bending moment about $Y_{WRC}$ , in-lb.
$M_{\ell WI}$		wing-root roll-axis bending moment about inboard gauge, in-lb.
$M_{\ell WO}$		wing-root roll-axis bending moment about outboard gauge, in-lb.
$M_{m WG}$		wing-root pitch-axis bending moment about gauge, in-lb.
$M_{m W}$		wing-root pitch-axis bending moment about $X_{WRC}$ , in-lb.

NOMENCLATURE (Continued)  
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$N_W$		wing normal force, lb.
$P_i$		pressure (absolute) at model orifice i, psia.
$P_\infty$	P	freestream static pressure, psia.
$P_{RCS}$		RCS plenum pressure, psia.
$P_T$	PT	freestream total pressure, psia.
$Re/ft$	RE/FT	freestream unit Reynolds number, per foot.
$T_{FCj}$		fuselage chamber temperature at thermocouple j, °R.
$T_\infty$		freestream static temperature, °R.
$T_{RCS}$		RCS plenum temperature, °R.
$T_T$		freestream total temperature, °R.
$T_{WGK}$		wing-root gauge temperature at thermocouple K, °R.
$X_{CPW}$		longitudinal location of wing center-of-pressure, distance from Orbiter nose station, in.
$X_{G_m}$		longitudinal location of wing-root pitch-axis gauge, in.
$X_{WRC}$		lateral location of wing reference center, distance from Orbiter plane-of-symmetry, in.
$Y_{CPW}$		lateral location of wing center-of-pressure distance from Orbiter plane of symmetry, in.
$Y_{G_i}$		lateral location of inboard wing-root roll-axis gauge, in.
$Y_{G_o}$		lateral location of outboard wing-root roll-axis gauge, in.

NOMENCLATURE (Concluded)  
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$Y_{WRC}$		lateral location of wing reference center, distance from Orbiter plane-of-symmetry, in.
$\delta_r$	RUDDER	rudder surface deflection angle, positive deflection, trailing edge to the left; degrees
$\delta_a$	AILRON	aileron, total deflection angle, degrees, (left aileron-right aileron)/2.
$\delta_{SB}$	SPDBRK	speedbrake deflection angle, degrees
$Y/b/2$	2Y/B	local spanwise position/wing semi-span.
$x/c$	X/C	local chordwise position/local chord length.
$x/d$	X/D	longitudinal position/local nozzle diameter.
$x_0$	X0	longitudinal reference station.
$\delta_{BF}$	BDFLAP	body flap deflection angle, degrees.
$\delta_e$	ELEVON	elevon, surface deflection angle, positive deflection, trailing edge down; degrees.

## CONFIGURATION INVESTIGATED

The 0.015-scale Orbiter model was built to Rockwell International configuration control drawings VL70-000140A and VL70-000140B, as combined per model design drawing BD-SS-A00130, and has been referred to as the "14CA/B" configuration.

The model was constructed of Armco 17-4 stainless steel to meet Rockwell International and Ames Research Center loads safety-factor requirements. The model was mounted in the 3.5-foot tunnel on a Rockwell International-designed sting and hinge-adaptor assembly without a main balance.

The right wing was strain-gauge instrumented for wing-root pitch-axis bending moments, wing-root roll-axis bending moments, and wing normal-force loads. The left-hand fuselage side, the left wing, and the left-lower MPS nozzle were instrumented with surface pressure orifices. These pressure taps were measured by a six-module scanivalve gang enclosed in the fuselage. The Reaction Control System aftbody pitch-down engines were simulated by interchangeable cold-air-fed nozzle blocks. Precalibrated plumes from the forward two down-firing aftbody nozzles on each side of the Orbiter were employed. RCS plenum temperature and pressure were monitored for controlled operation of the plumes.

Model 36-0 dimensional data sheets are provided in Table III. The test configuration included the following components, all of which were present throughout the test; no alternate configurations or configuration-buildup programs were investigated.

# CONFIGURATION INVESTIGATED (Concluded)

The configuration tested was:

140A/B Orbiter = B<sub>26</sub> C<sub>9</sub> F<sub>8</sub> M<sub>7</sub> N<sub>24</sub> V<sub>8</sub> R<sub>5</sub> W<sub>116</sub> E<sub>26</sub>

## Component

B <sub>26</sub>	Fuselage, per Rockwell International lines VL70-000140A and VL70-000140B
C <sub>9</sub>	Canopy, per lines VL70-000140A and VL70-000143A
E <sub>26</sub>	Elevons for W <sub>116</sub> , per lines VL70-000200
F <sub>8</sub>	Bodyflap, per VL70-000145
M <sub>7</sub>	OMS/RCS pods, per VL70-000145 and VL70-008401
N <sub>24</sub>	MPS engine nozzles
R <sub>5</sub>	Rudder/speedbrake for V <sub>8</sub> , per lines VL70-000146A
V <sub>8</sub>	Vertical tail, per lines VL70-000146A
W <sub>116</sub>	Wing for Configuration 140A/B Orbiter, per lines VL70-000200

## TEST FACILITY DESCRIPTION

The NASA-Ames 3.5-Foot Hypersonic Wind Tunnel is a closed-circuit, blowdown-type tunnel capable of operating at nominal Mach numbers of 5, 7, and 10 at pressures to 1800 psia and temperatures to 3400°R for run times to four minutes. The major components of the facility include a gas storage system where the test gas is stored at 3000 psia, a storage heater filled with aluminum-oxide pebbles capable of heating the test gas to 3400°R, axisymmetric contoured nozzles with exit diameters of 42 inches for generating the desired Mach number, and a 900,000 ft<sup>3</sup> vacuum storage system which operates to pressures of 0.3 psia. The test section itself is an open-jet type enclosed within a chamber approximately 12 feet in diameter and 40 feet in length, arranged transversely to the flow direction.

A model support system is provided that can pitch models through an angle-of-attack range of -20 to +20 degrees, in a vertical plane, about a fixed point of rotation on the tunnel centerline. This rotation point is adjustable from 1 to 5 feet from the nozzle exit plane. The model normally is out of the test stream (strut centerline 37 inches from tunnel centerline) until the tunnel test conditions are established. The model is then inserted. Insertion time is adjustable to as little as 1/2 second and models may be inserted at any strut angle.

A high-speed, analog-to-digital data acquisition system is used to record test data on magnetic tape. The present system is equipped to measure and record the outputs from 80 transducers in addition to 20 channels of tunnel parameters.

# DATA REDUCTION

A pressure coefficient,  $C_{p_i}$ , is computed for each pressure orifice i:

$$C_{p_i} = \frac{P_i - P_\infty}{q}$$

Wing-root gauge-centered bending-moment coefficients are computed:

$$C_{l_{WI}} = \frac{M_{l_{WI}}}{Sbq}$$

$$C_{l_{WO}} = \frac{M_{l_{WO}}}{Sbq}$$

$$C_{m_{WG}} = \frac{M_{m_{WG}}}{S\bar{c}q}$$

A wing normal-force coefficient is computed:

$$C_{N_W} = \left[ \frac{C_{l_{WI}} - C_{l_{WO}}}{d_G} \right] b$$

where:

$$d_G = Y_G l_O - Y_G l_I$$

Wing center-of-pressure locations are computed as follows:

$$x_{cp_W} = x_{G_m} - \frac{C_{m_{WG}} \bar{c}}{C_{N_W}}$$

$$y_{cp_W} = Y_G l_I + \frac{C_{l_{WI}} b}{C_{N_W}}$$

Wing-root reference-centered bending-moment coefficients are computed:

$$C_{l_W} = C_{l_{W_0}} + \frac{C_{N_W} (Y_{G_{l_0}} - Y_{WRC})}{b}$$

$$C_{m_W} = C_{m_{W_G}} - \frac{C_{N_W} (X_{G_m} - X_{WRC})}{\bar{c}}$$

Reference dimensions and constants are:

<u>Symbol</u>	<u>Model scale</u>	<u>Full scale</u>
$l_B$ , in	19.3545	1290.3
$\bar{c}$ , in	7.1220	474.8
$b$ , in	14.0502	936.68
$S$ , ft <sup>2</sup>	0.60525	2690.0
$d_G$ , in	0.822	
$X_{G_m}$ , in from nose ( $X_0 = 235$ )	14.877	
$Y_{G_{l_I}}$ , in $Y_0$	0.888	
$Y_{G_{l_0}}$ , in $Y_0$	1.710	
$X_{WRC}$ , in from nose ( $X_0 = 235$ )	15.0800	1005.333
$Y_{WRC}$ , in $Y_0$	1.6200	108.0



## DISCUSSION OF RESULTS

Qualitative analysis of data obtained in test OA83 indicated that the RCS engines had an insignificant effect with respect to aerodynamic loads on the Orbiter at hypersonic airspeeds. Some interest in the data was expressed, however, in areas of concern to aerothermodynamics personnel.

Wing-bending moment data (flexion, torsion, and normal force) was plagued by thermal-gradient effects upon the wing-root-mounted gauges, and this data has been discarded.

Pressure data are excellent, with consistent trends between all RCS-on and RCS-off conditions at all three Mach numbers. Bad readings have been deleted.

RCS operations were good, with pressure variations generally maintained within  $\pm 10$  psia. Certain equipment shortcomings were accountable for larger variations mostly in the earlier runs.

Only tabulated pressure data will be presented in this report.

TABLE I.

[illegible]

TABLE II.

DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 4-24-74			
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES							NO. OF RUNS	MACH. NUMBER	
		$\alpha$	$\beta$	$S_E$	$S_A$	$S_{SE}$	CF	CH	RCS				
140 F/B Orbiter		30	0	1	0	0	0	-11.7		ON	5.3	7.3	10.3
01		34											7-B
03		30											6-B
04		30								OFF			5-E
05		34											7-A
06		34											6-A
07		30	2							ON			5-A
08		34											8-B
09		38											9-E
10		30								OFF			10-B
11		34											8-A
12		38											9-A
13		30	2										10-A
14		34								ON			18-B
15		38											20-C
16		30								OFF			20-E
17		34											18-A
18		38											19-A
19		30											20-A
20		34											

CR

MACH. 10.3

ALPHA 1

1

7

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19

25

31

37

43

49

55

61

67

73

$\alpha$  OR  $\beta$   
SCHEDULES

EFFICIENT

CLARITY

LEGACY

TABLE II. CONTINUED.

TEST: OA83		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 4-24-74				
DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS			TEST RUN NUMBERS
		SCHD.		$\delta_F$		$\delta_A$	$\delta_{SB}$	$\delta_R$	$\delta_{SF}$	RCS						
REW019	140 A/B Orbiter	30	0	4	0	0	0	0	16.3		ON		5.3	7.3	10.3	3-B
20		34														2-B
21		38									Y					4-B
22		30									OFF					3-A
23		24														2-A
24		38	Y								Y					2-A
25		30-2									ON					2-A
26		34														2-A
27		38									Y					2-A
28		30									OFF					2-A
29		34														2-A
30		38									Y					2-A
31		30	Y								ON					2-A
32		34	Z													2-A
33		38									Y					2-A
34		30									OFF					2-A
35		34														2-A
36	Y	38	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				2-A
		7	13	19	25	31	37	43	49	55	61	67	73	79	85	91
CP		COEFFICIENTS										MACH		ALPHA		1
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TABLE II. CONTINUED.

TEST: 0A83		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 4-24-74	
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES						NO. OF RUNS	MACH NUMBERS		
		$\alpha$	$\beta$	$\delta_F$	$\delta_A$	$\delta_{SF}$	$\delta_{BF}$	RCS					
REW037	140% Orbiter	24	0	-6	0	0	-11.7	ON			5.3	7.3	10.3
38		28										34A	
39		32										29-A	
40		24						OFF				29-B	
41		28										23-A	
42		32										23-B	
43		24		1				ON				30-A	
44		28										21-A	
45		32										33-A	
46		24						OFF				31-A	
47		28										22-A	
48		32										22-B	
												32A	

**TABLE II. CONCLUDED.**

TEST: 0A83		DATE SET/RUN NUMBER COLLATION SUMMARY										DATE: 4-24-74	
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES					NO. OF RUNS	MACH NUMBERS			
		$\alpha$	$\beta$	$\delta_E$	$\delta_A$	$\delta_{SB}$	$\delta_{HF}$	RCS		5.3	7.3	10.3	
REWO42	140 A/B Orbiter	18	0	-8	0	0	0	ON		26-A			
50		22						↓		26-B			
51		22						OFF		26-C			
52		18						↓		25-A			
53		22						ON		25-B			
54		22						↓		25-C			
55		18		-5				ON		28-A			
56		22						↓		28-B			
57		22						OFF		28-C			
58		18						↓		27-A			
59		22						ON		27-B			
60	↓	22						↓		27-C			

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT BODY - B<sub>26</sub>

GENERAL DESCRIPTION Configuration 140A/B Orbiter Fuselage

NOTE: B<sub>26</sub> is identical to B<sub>24</sub> except underside of fuselage has been refaired to accept W<sub>116</sub>.

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER VL70-000143B, -000200, 000205, -00608, -000145, -000140A, 000140B

DIMENSIONS	FULL SCALE	MODEL SCALE
*Length (CML: Fwd Sta. X <sub>0</sub> =235)-In.	1293.3	19.400
*Length (IML: Fwd Sta. X <sub>0</sub> =238)-In.	1290.3	19.350
* Max Width (@ X = 1528.3) - In.	264.0	3.960
Max Depth (@ X <sub>0</sub> = 1464) - In.	250.0	3.750
Fineness Ratio		
Area - Ft <sup>2</sup>		
Max. Cross-Sectional	340.88	0.077
Planform		
Wetted		
Base		

TABLE III. - MODEL DIMENSIONAL DATA- Continued.

MODEL COMPONENT CANOPY - C<sub>9</sub>  
 GENERAL DESCRIPTION Configuration 3A, Canopy used with Fuselage  
B<sub>26</sub>  
 MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12  
 DRAWING NUMBER VL70-000143A

DIMENSIONS :	FULL SCALE	MODEL SCALE
*Length ( $X_0 = 434.643$ to $578$ )	<u>143.357</u>	<u>2.150</u>
Max Width (@ $X_0 = 513.127$ )	<u>152.412</u>	<u>2.286</u>
Max Depth (@ $X_0 = 485.0$ )	<u>25.000</u>	<u>0.375</u>
Fineness Ratio	<u></u>	<u></u>
Area	<u></u>	<u></u>
Max. Cross-Sectional	<u></u>	<u></u>
Planform	<u></u>	<u></u>
Wetted	<u></u>	<u></u>
Base	<u></u>	<u></u>



TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELEVON - E<sub>26</sub>

GENERAL DESCRIPTION: Configuration 140A/B Orbiter Elevon

DATA ARE FOR ONE SIDE.

MODEL SCALE: 0.015

MODEL DRAWING: 14-400148, RELEASE 6

DRAWING NUMBER: VL70-000200, -006089, -006092

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area $\text{Ft}^2$	<u>210.0</u>	<u>0.0173</u>
Span (equivalent) - In.	<u>349.2</u>	<u>5.238</u>
Inb'd equivalent chord - In.	<u>118.004</u>	<u>1.770</u>
Outb'd equivalent chord - In.	<u>55.192</u>	<u>0.828</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
* Area Moment (Product of Area & $\bar{c}$ ) - $\text{Ft}^3$	<u>1587.25</u>	<u>0.0254</u>
* Mean Aerodynamic Chord - In.	<u>90.7</u>	<u>1.361</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BODY FLAP F<sub>0</sub>

GENERAL DESCRIPTION : Configuration 140A/B orbiter body flap

Hingeline located at X<sub>0</sub> = 1528.3, Z<sub>0</sub> = 284.3

---

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 2

DRAWING NUMBER VL70-000140A, VL70-000145

DIMENSIONS	FULL SCALE	MODEL SCALE
Length (X <sub>0</sub> =1520 to X <sub>0</sub> =1613), In.	<u>93.00</u>	<u>1.395</u>
Max Width, In.	<u>262.00</u>	<u>3.930</u>
Max Depth (X <sub>0</sub> = 1520), In.	<u>23.00</u>	<u>0.345</u>
Fineness Ratio	<u></u>	<u></u>
Area - Ft <sup>2</sup>	<u></u>	<u></u>
Max. Cross-Sectional	<u></u>	<u></u>
Planform	<u>150.525</u>	<u>0.033</u>
Wetted	<u></u>	<u></u>
Base	<u>41.84722</u>	<u>0.0010</u>

TABLE III. - MODEL DIMENSIONAL DATA- Continued.

MODEL COMPONENT OMS/RCS PODs - M<sub>7</sub>

GENERAL DESCRIPTION Configuration 140A/B Orbiter OMS/RCS Pods

MODEL SCALE: 0.015 MODEL DRAWING: SD-A00147, RELEASE 12

DRAWING NUMBER VL70-000145

DIMENSIONS	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta $X_0=1233.0$ )-In.	<u>327.000</u>	<u>4.905</u>
Max Width (@ $X_0 = 1450.0$ ) - In.	<u>94.5</u>	<u>1.418</u>
Max Depth (@ $X_0 = 1493.0$ ) - In.	<u>102.000</u>	<u>1.635</u>
Fineness Ratio	<u>                    </u>	<u>                    </u>
Area	<u>                    </u>	<u>                    </u>
Max. Cross-Sectional	<u>                    </u>	<u>                    </u>
Planform	<u>                    </u>	<u>                    </u>
Wetted	<u>                    </u>	<u>                    </u>
Base	<u>                    </u>	<u>                    </u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: MPS NOZZLES - N<sub>24</sub>

GENERAL DESCRIPTION: Configuration 3A MPS Nozzles

MODEL SCALE: 0.015

DRAWING NUMBER: VL70-000140A, VL70-005030A

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	<u>157.0</u>	<u>2.355</u>
Throat to Exit Plane	<u>99.2</u>	<u>1.488</u>
Diameter - In.		
Exit	<u>91.00</u>	<u>1.365</u>
Throat	<u>          </u>	<u>          </u>
Inlet	<u>          </u>	<u>          </u>
Area - ft <sup>2</sup>		
Exit	<u>45.16585</u>	<u>0.0102</u>
Throat	<u>          </u>	<u>          </u>
Gimbal Point (Station) - In.		
Upper Nozzle		
X	<u>1445.0</u>	<u>21.675</u>
Y	<u>0.0</u>	<u>0.0</u>
Z	<u>443.0</u>	<u>6.645</u>
Lower Nozzles		
X	<u>1468.16996</u>	<u>22.023</u>
Y	<u>+ 53.000</u>	<u>+ 0.795</u>
Z	<u>342.63988</u>	<u>5.140</u>
Null Position - Deg.		
Upper Nozzle		
Pitch	<u>16°</u>	<u>16°</u>
Yaw	<u>0°</u>	<u>0°</u>
Lower Nozzle		
Pitch	<u>10°</u>	<u>10°</u>
Yaw	<u>3.5°</u>	<u>3.5°</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: RUDDER - E<sub>5</sub>GENERAL DESCRIPTION: 2A, 3, 3A and 140A/B ConfigurationsMODEL SCALE: 0.015DRAWING NUMBER: VL70-000146A, VL70-000095, VL70-000139.

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
*Area- Ft <sup>2</sup>	<u>100.15</u>	<u>0.0225</u>
Span (equivalent) - In	<u>201.0</u>	<u>3.015</u>
Inb'd equivalent chord - In.	<u>91.585</u>	<u>1.3738</u>
Outb'd equivalent chord - In.	<u>50.833</u>	<u>0.7625</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
* Area Moment (Product of area & $\bar{c}$ )-Ft <sup>3</sup>	<u>610.92</u>	<u>0.002</u>
*Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>1.098</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: VERTICAL - V<sub>8</sub>GENERAL DESCRIPTION: Configuration 140A/B Orbiter Vertical TailMODEL SCALE: 0.015MODEL DRAWING: SS-A00148, RELEASE 6DRAWING NUMBER: VL70-000146ADIMENSIONS: FULL SCALE MODEL SCALE

## TOTAL DATA

Area (Theo) - Ft <sup>2</sup>		
Planform	<u>413.253</u>	<u>0.093</u>
Span (Theo) - In.	<u>315.720</u>	<u>4.736</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.000</u>	<u>45.000</u>
* Trailing Edge	<u>26.2</u>	<u>26.2</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords:		
Root (Theo) WP	<u>268.500</u>	<u>4.028</u>
Tip (Theo) WP	<u>108.470</u>	<u>1.627</u>
MAC	<u>199.808</u>	<u>2.997</u>
Fus. Sta. of .25 MAC	<u>1453.50</u>	<u>21.953</u>
W.P. of .25 MAC	<u>635.522</u>	<u>9.533</u>
B.L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle - Deg.	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius	<u>2.00</u>	<u>0.030</u>
Void Area	<u>13.17</u>	<u>0.003</u>
Blanketed Area	<u>0.00</u>	<u>0.00</u>

TABLE III. - MODEL DIMENSIONAL DATA - Concluded.

MODEL COMPONENT: WING-W<sub>116</sub>GENERAL DESCRIPTION: Configuration 4NOTE: Identical to W<sub>114</sub> except airfoil thickness. Dihedral angle is along trailing edge of wing.MODEL SCALE: 0.015

TEST NO.

DWG. NO. VL70-000140A, -000200

DIMENSIONS:

FULL-SCALEMODEL SCALETOTAL DATAArea (Theo.)  $\text{Ft}^2$ 

Planform

2690.00

0.605

Span (Theo) In.

935.66

14.050

Aspect Ratio

2.265

2.265

Rate of Taper

1.177

1.177

Taper Ratio

0.200

0.200

Dihedral Angle, degrees

3.500

3.500

Incidence Angle, degrees

0.500

0.500

Aerodynamic Twist, degrees

+ 3.000

+ 3.000

Sweep Back Angles, degrees

Leading Edge

45.000

45.000

Trailing Edge

- 10.056

- 10.056

0.25 Element Line

35.200

35.200

## Chords:

Root (Theo) B.P.O.O.

689.24

10.339

Tip, (Theo) B.P.

137.85

2.068

MAC

474.81

7.122

\*Fus. Sta. of .25 MAC

1136.83

17.052

\* W.P. of .25 MAC

290.58

4.359

\* B.L. of .25 MAC

182.13

2.732

EXPOSED DATA\* Area (Theo)  $\text{Ft}^2$ 

1751.50

0.394

\* Span, (Theo) In. BP108

720.68

10.010

\* Aspect Ratio

2.050

2.050

Taper Ratio

0.245

0.245

## Chords

\* Root BP108

562.00

8.431

Tip 1.00  $\frac{b}{2}$ 

137.85

2.068

\* MAC

392.83

5.802

\* Fus. Sta. of .25 MAC

1185.68

17.750

\* W.P. of .25 MAC

294.50

4.415

\* B.L. of .25 MAC

251.77

3.777

Airfoil Section (Rockwell Mod NASA)  
XXXX-64Root  $\frac{b}{2}$  =

0.113

0.113

Tip  $\frac{b}{2}$  =

0.12

0.12

Data for (1) of (2) Sides

Leading Edge Cuff

\*Planform Area  $\text{Ft}^2$ 

113.18

0.025

\* Leading Edge Intersects Fus M. L. @ Sta

500.0

7.50

\* Leading Edge Intersects Wing @ Sta

1024.00

15.36

# Notes

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

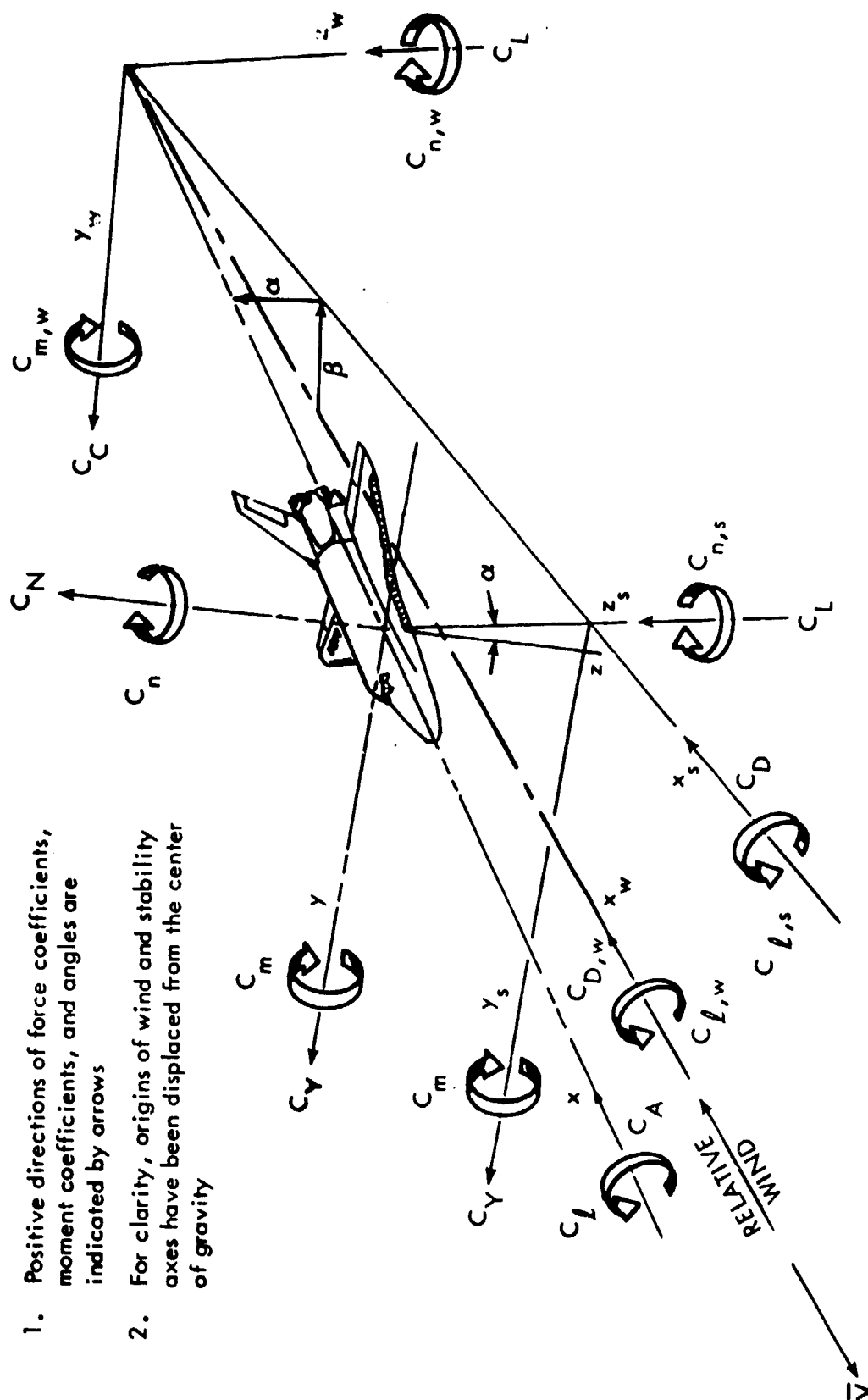


Figure 1. - Axis systems.



REFERENCE	DIMENSIONS (FS)
AREA	$S_v = 2690 \text{ FT}^2$
MAC	$C = 474.8 \text{ IN.}$
C.G.	$X_o = 1076.7 \text{ IN.}$
	$Z_o = 375.0 \text{ IN.}$
SPAN	$b_v = 936.68 \text{ IN.}$
LENGTH (IML)	$L_B = 1290.3 \text{ IN.}$
LENGTH (OML)	$L_B = 1293.3 \text{ IN.}$

ALL DIMENSIONS IN  
INCHES--FULL SCALE

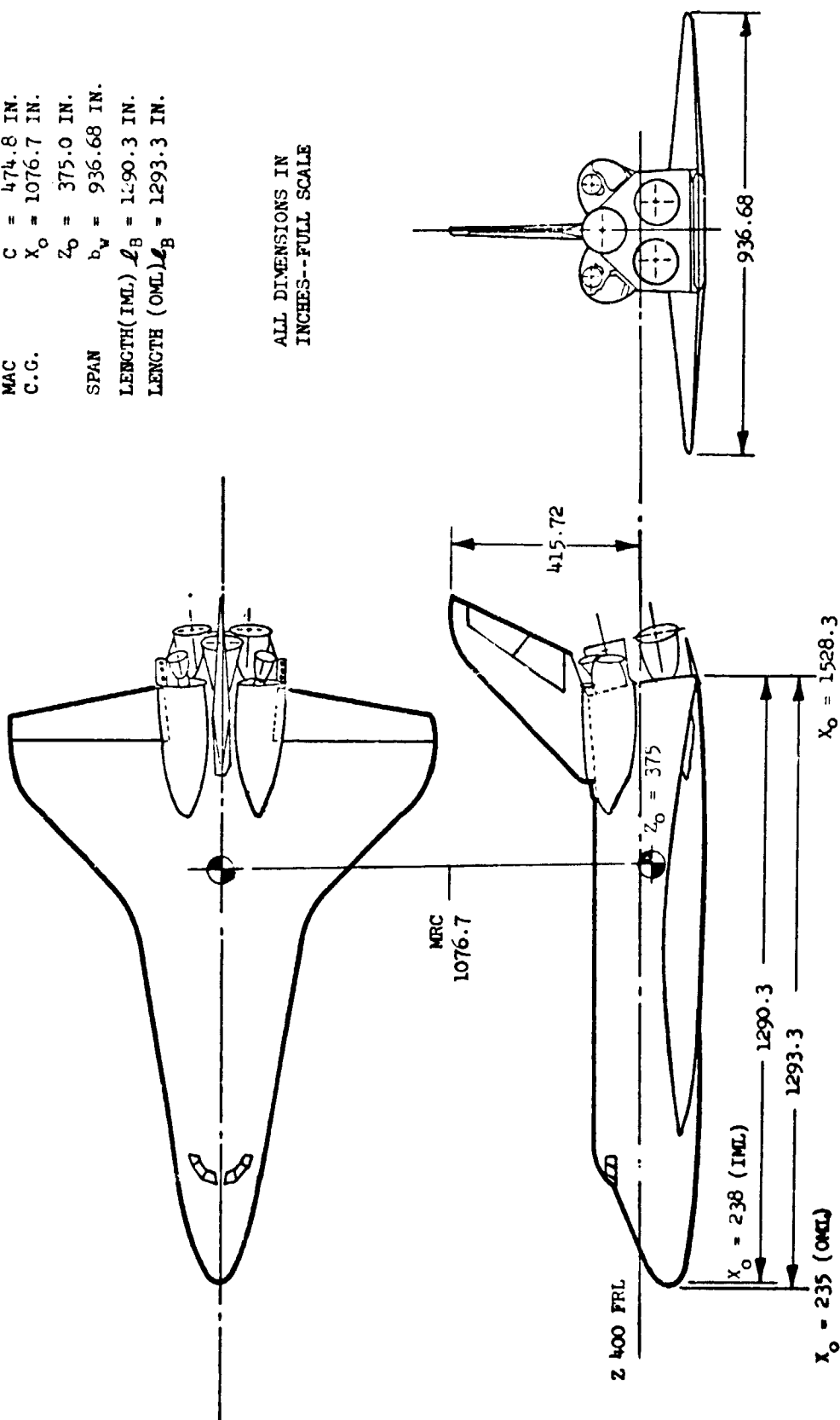
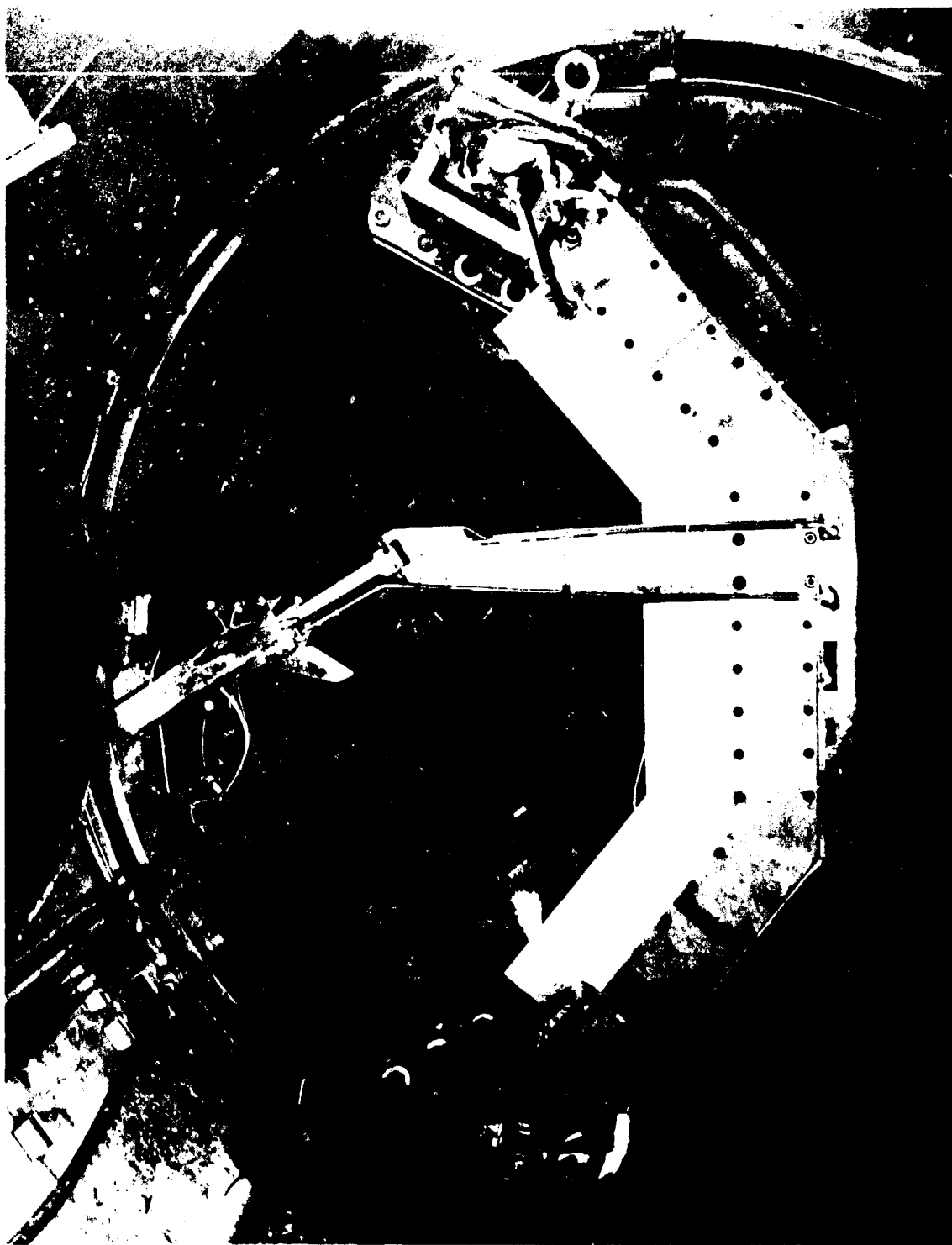


Figure 2. - SSV Orbiter Configuration 140A/B.



a. Tunnel Installation showing Model, Torque, and Strain Vector Meter

Figure 11 - Model photograph.

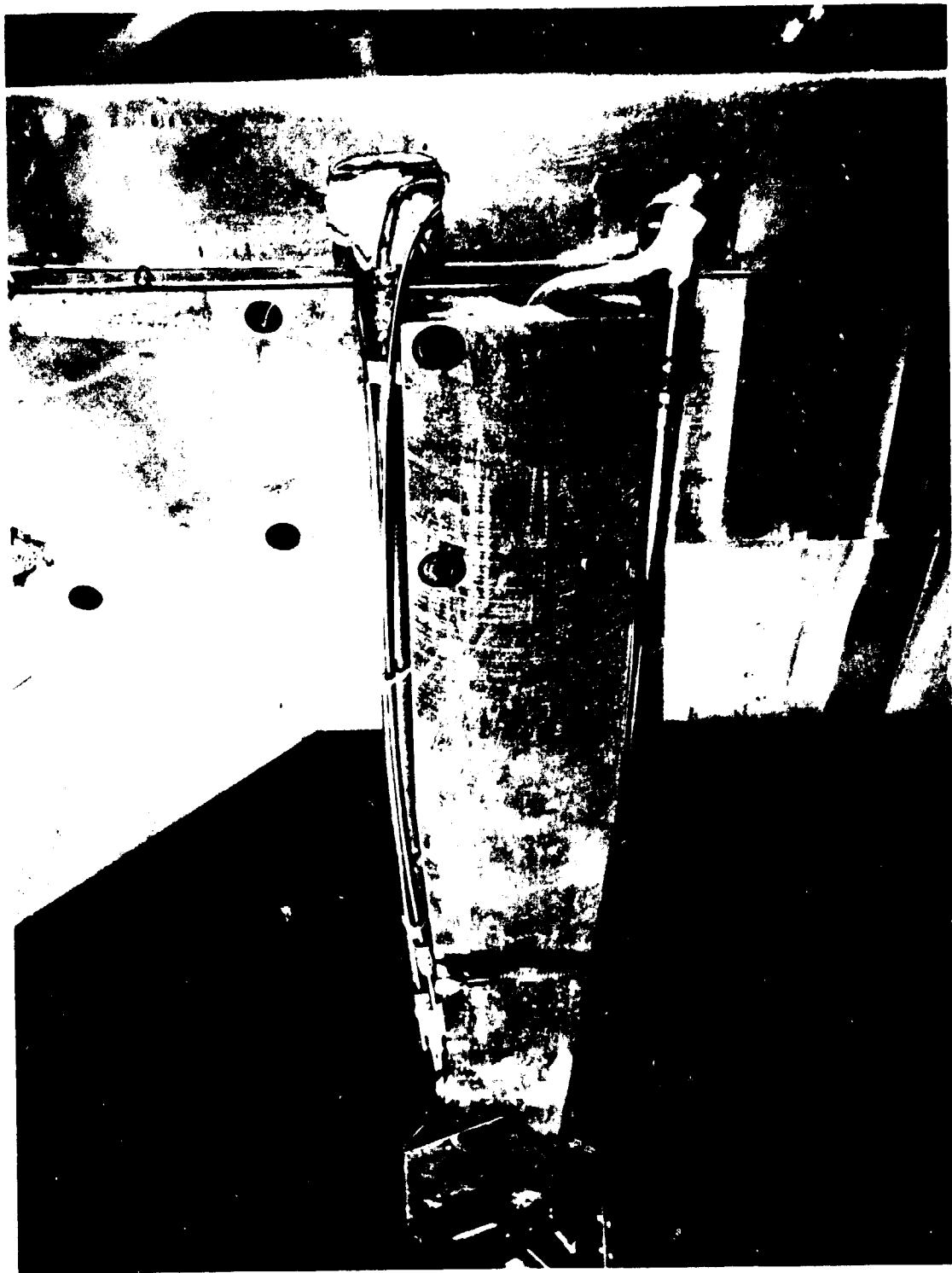


b. Sting Adaptor and Sideslip Hinge Assembly

Figure 3. - Continued.



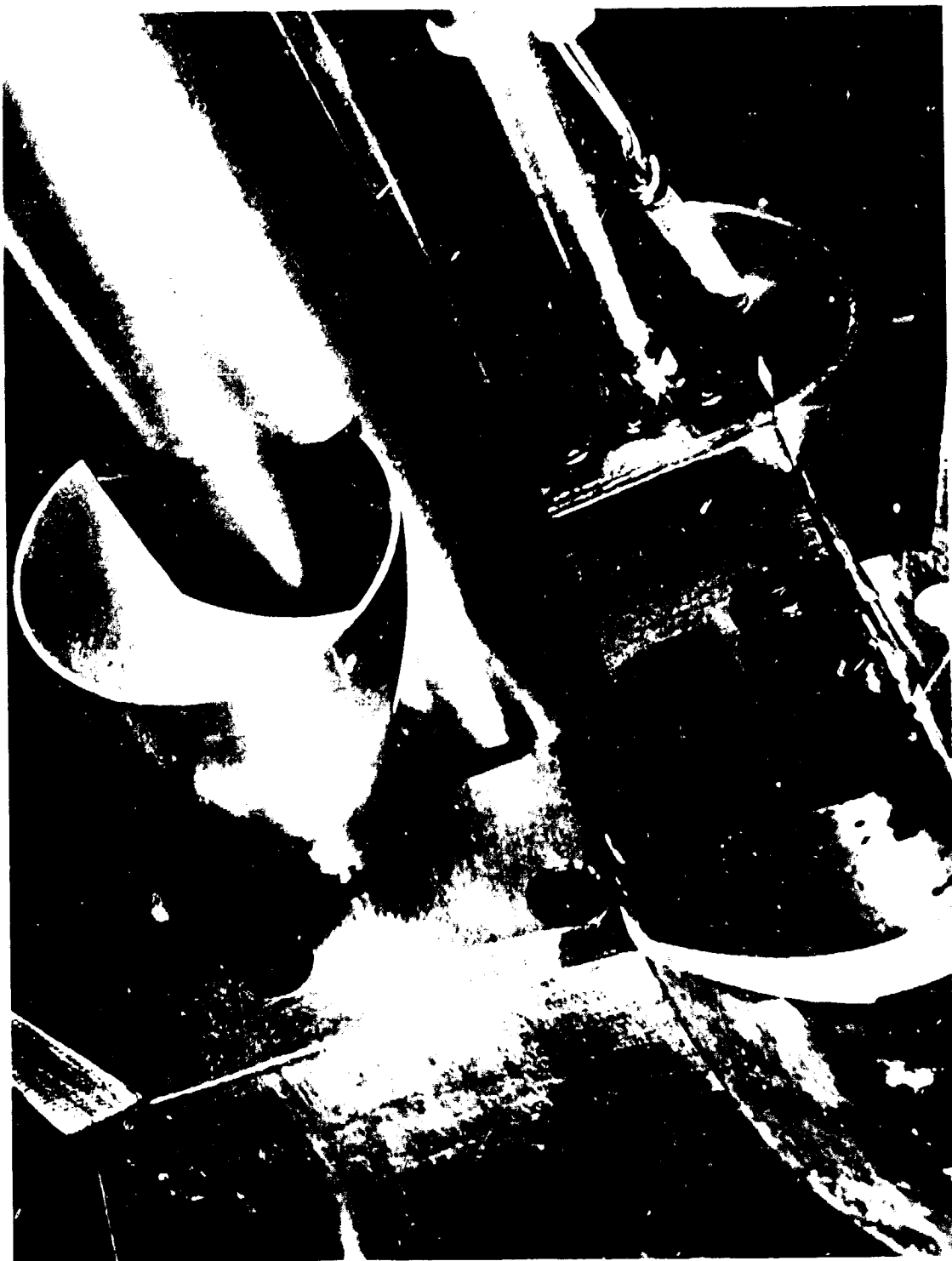
c. Pressure Orifice Instrumentation on Left Hand Side of Orbiter  
Figure 3. - Continued.



d. Sting Mounting Showing Instrumentation, RCS Air Supply, and Cooling Air Lines

Figure 3. - Continued.

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e. Closeup of Fuselage Base and RCS Simulation Nozzle Block

Figure 3. - Continued.



f. Closeup of MPS Nozzle Pressure Tubing

Figure 3. - Concluded.

TABULATED PRESSURE DATA



DATE 10 FEB 75 TABULATED PRESSURE DATA - 0483

AMES 3-5-194 0483 019 RCS ON WING LOWER SURFACE (RE-0481) ( 28 AUG 74 )

REFERENCE DATA

REF = 0000.0000 30.71. XMRP = .0000 IN.  
 LREF = 474.0000 IN. YMRP = .0000 IN.  
 GREF = 030.7000 IN. ZMRP = .0000 IN.  
 SCALE = .9190

PARAMETRIC DATA

BETA = .000 ELEVOM = 1.000  
 ALLROM = .000 SPDBRC = .300  
 RUDDER = .000 BOFLAP = -11.700

MACH = 1.15 10.200 ALPHA = 11 29.610 RM/L = 1.050 0 2 2.356 P = .032 PT = 1779.308

SECTION 1: LOWER WING DEPENDENT VARIABLE CP

Y/Z	.30	.43	.53	.67	.76	.89
C/C						
.000	.0004	.0020	.3549	1.3139	.6009	.7009
.020			.0320	1.4419	.0204	1.0191
.040		.4134	.0320			
.060	.4305		1.2071	.9100	.9536	.9819
.080	.000		.9960			
.091		.0104				
.094		.9440				
.094	.5208					
.100		.7003	.0105	.0071	.9581	.0045
.103			.6929			
.107						
.270	.0014	.6204				
.246			.0365	.7635	.0012	.3500
.270			.6295			
.274						
.302	.0043	.0195				
.397			.6210	.7430		.7835
.400						
.422	.0295		.4562	.6863		
.497			.0053			
.500						
.549						
.600						.6006
.700	.9920					
.793						.5456
.814	.4440					
.900			.3481	.3743	.3969	
.917		.3963				
.969	.3610					
.970	.3637		.3379			.4590
.979		.3569	.3617			
.980			.3146			.3600
.991		.3187				
.999	.2022					

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DATE 15 FEB 75

## TABULATED PRESSURE DATA - 0483

PAGE

AM25 3.5-184 0483 010 RCS ON WING WER SURFACE

SCHWAB2) ( 28 AUG 74 )

## REFERENCE DATA

REF: 450.0000 36. FT. XMRP 2 .0000 IN.  
 LMRP 1 74.4000 IN. YMRP 2 .0000 IN.  
 QMRP 1 912.7000 IN. ZMRP 2 .0000 IN.  
 SCALE 1 .0150

## PARAMETRIC DATA

EIA 2 .000 ELEVON 2 1.000  
 ALLRON 2 .000 SPOILER 2 .000  
 FODDER 2 .000 BDF 2 -11.700

MACH 10 10.800 ALPHA (1) 33.725 RM/L 1.714 0 2.374 PT 1774.180

## SECTION 1 LOWER WING

## DEPENDENT VARIABLE CP

ST/B	.30	.36	.43	.53	.67	.78	.89
X/C							
.000	.0984	.0927	.3144	1.0481	.6300	.6138	.4830
.020			.0390	1.3750	1.1132	1.1318	1.0821
.040			.4873	.0877			
.050	.3178			1.2078	1.0360	1.1135	1.1129
.080				1.0343			
.081			.0810				
.084		.0651					
.094	.6100			.9838	.9418	1.0167	1.0074
.150		.0308					
.183			.0151				
.177							
.229	.7252						
.248		.6094		.0223	.0925	.9738	.4162
.250			.7483				
.274							
.302	.7581	.7547		.7749	.9781		.0975
.390			.7503				
.400				.5759	.6397		
.402	.7507						
.497			.7386				
.530							
.585				.4820	.4880	.5024	
.600							.8145
.700	.7350						
.750							.6516
.834	.9759						
.850			.4813				
.857							
.885	.4344						
.900	.4719		.4493				.5518
.905			.4443		.4707		
.950			.4209			.4753	
.953			.4212				
.965	.3885						

DATE 10 FEB 78

TABULATED PRESSURE DATA - Q483

PAGE 3

AMES 3.5-194 Q483 Q10 RCS ON WING LOWER SURFACE (REMARKS) ( 28 AUG 74 )

## REFERENCE DATA

REF = 2000.0000 10. PT. KREF = .0000 IN.  
 LREF = 474.0000 IN. YREF = .0000 IN.  
 BREF = 936.7000 IN. ZREF = .0000 IN.  
 SCALE = .0190

## PARAMETRIC DATA

BETA = .000 ELEVON = 1.000  
 AILRON = .000 SPURR = .000  
 RUDDER = .000 DOFLAP = -11.700

MACH ( 1 ) = 10.280 ALPHA ( 1 ) = 37.771 RN/L = 1.980 Q = 2.442 P = .033 AT = 1608.800

## SECTION ( 1 ) LOWER WING

## DEPENDENT VARIABLE CP

ST/B	.30	.36	.43	.53	.67	.78	.89
X/C							
.000	.0911	.0891	.2832	.8724	.5749	.5033	.3994
.020			.0876	1.3781	1.1831	1.1744	1.0810
.040		.5329	.9566				
.060	.5809			1.2834	1.1667	1.2085	1.1788
.080				1.1626			
.091			.9889				
.084		.7538					
.094	.5908						
.150				1.0878	1.0939	1.1489	1.1403
.163		.9184					
.177			.9437				
.229	.8340						
.246		.9207					
.250			.8829	.9676	1.0592	1.1052	.4946
.274							
.302	.8754						
.390		.8778					
.400				.9240	1.0200		1.0335
.402			.8863				
.467	.8582			.6946	.9742		
.550			.8657				
.585							
.600							.9295
.700	.8717						
.750							.7771
.834	.6923						
.850				.5870	.6009	.6148	
.857			.5842				
.869	.3167						.6913
.900	.5729			.4684			
.905			.5967		.5381		
.950				.5340		.6019	
.953			.5274				
.985	.4894						

ANES 3.5-194 QAB3 OLD RCS OFF WING LOWER SURFACE (REMARK4) ( 28 AUG 74 )

## REFERENCE DATA

REF : 1500.0000 50.00 PT. XMRP : .0000 IN.  
 REF : 4.0000 IN. YMRP : .0000 IN.  
 REF : 930.0000 IN. ZMRP : .0000 IN.  
 SCALE : 0.190

## PARAMETRIC DATA

BETA : .000 ELEVON : 1.000  
 AILERON : .000 SPDBRK : .000  
 RUDDER : .000 BOFLAP : -11.700

MACH ( 1 ) : 10.890 ALPHA ( 1 ) : 29.611 RW/L : 1.063 Q : .032 P : 2.397 R : 1778.990

## SECTION 1 LOWER WING DEPENDENT VARIABLE CP

Y/Z	.30	.36	.43	.53	.67	.78	.89
X/C							
.000	.0929	.0896	.3728	1.3858	.7038	.7125	.5798
.020			.8443	1.4311	1.5401	1.0131	1.0248
.040		.4078	.8613				
.050	.4364			1.2026	.9153	.9488	.9660
.080				.9872			
.081			.7887				
.084		.5836					
.094	.5187			.7778	.7986	.8439	.8533
.135		.6924					
.163							
.177			.6770				
.229	.6034						
.246		.6851		.6529	.7571	.7861	.3949
.274			.8111				
.382	.8256						
.390		.6089					.7547
.400			.6041				
.482							
.497	.8054						
.550				.4452	.6660		
.585			.5997				.6485
.600							
.700	.5817						
.750							.5277
.834	.4354						
.850				.3384	.3575	.3797	
.857		.3444					
.863	.3835						
.900	.3528			.3213			.4485
.905		.3836		.3397			
.950			.3095				.3581
.955			.3101				
.985	.6855						

DATE 10 FEB 75 TABULATED PRESSURE DATA - 0463

AMES 3.5-194 0463 019 RCS OFF WING LOWER SURFACE (REMAOS) ( 20 AUG 74 )

REFERENCE DATA				PARAMETRIC DATA			
REF = 2000.0000 10. PT.	IMP =	.0000 IN.	BETA =	.000	ELEVON =	1.000	
REF = 474.0000 IN.	YMRP =	.0000 IN.	AILRON =	.000	SPOBRK =	.000	
REF = 936.7000 IN.	ZMRP =	.0000 IN.	RUDDER =	.000	SDFLAP =	-11.700	
SCALE = .0150							
MACJ ( 1 ) = 10.200	ALPHA ( 1 ) = 33.722	RM/L = 1.700	Q = 2.373	P =	.032	PT = 1774.300	
SECTION ( 1 ) LOWER WING				DEPENDENT VARIABLE CP			
BY/8	.50	.36	.43	.53	.67	.78	.89
X/C							
.000	.1171	.1141	.3206	1.0724	.6337	.6346	.4947
.020			.8516	1.4400	1.1220	1.1104	1.0020
.040		.4730	.8966				
.060	.5036			1.2519	1.0419	1.0830	1.1172
.080				1.0835			
.001			.8888				
.004		.6349					
.006	.6039			.9606	.9367	.9517	.9139
.150		.8066					
.177			.7903				
.229	.7110		.7947				
.246				.6173	.9021	.9422	.4666
.250			.7423				
.274							
.362	.8243		.7421				
.390				.7620	.8758		.8994
.400			.7408				
.402							
.497	.7417			.5530	.8193		
.530			.7217				
.569							
.600				.4493	.4706	.4937	.7846
.700	.7221						.6504
.750		.8663					
.834							
.850							
.857		.4523					
.869	.4576						
.900	.4823			.4378			.5510
.913		.4306		.4556			
.930				.4122			.4621
.953		.4109					
.965	.3893						

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OF POOR QUALITY

AMES 3.3-194 0403 010 RCS OFF WING LOWER SURFACE

(REMARKS) ( 28 AUG 74 )

## REFERENCE DATA

SRCP = 2490.0000 30. FT. XMRP = .0000 IN.  
 LRCP = 474.0000 IN. YMRP = .0000 IN.  
 BRCP = 938.7000 IN. ZMRP = .0000 IN.  
 SCALE = .9150

## PARAMETRIC DATA

BETA = .000 ELEVOM = 1.000  
 AILROM = .000 SPDRK = .000  
 RUDDER = .000 80FLAP = -11.700

MACH ( 1 ) = 10.800 ALPHA ( 1 ) = 37.736 RM/L = 1.996 Q = 2.441 P = .033 PT = 1802.500

## SECTION ( 1 ) LOWER WING

## DEPENDENT VARIABLE CP

2778	.30	.36	.43	.53	.67	.76	.89
X/C							
.000	.1036	.1031	.2687	.8919	.5974	.5477	.4123
.020			.8915	1.4189	1.1678	1.1657	1.0690
.040		.5323	.9641				
.060	.5734			1.2634	1.1598	1.2046	1.1070
.080				1.1444			
.091			1.0037				
.094		.7389					
.094	.8908						
.130		.9233		1.0886	1.0957	1.1355	1.1259
.163			.9103				
.177	.8285						
.246		.9271					
.250			.8788	.9551	1.0330	1.0879	.5430
.274	.8375						
.300		.8741					
.400			.8773	.7288	1.0169		1.0245
.402							
.497	.8838			.8729	.9864		
.510			.8794				
.983							
.800				.5797	.5934	.6066	.9235
.700	.8070						
.750							.7695
.834	.8790						
.850							
.857			.5755				
.888	.7803						
.900	.5866			.4094			.7160
.903			.5438		.5125		
.950				.5162		.5778	
.993			.5226				
.965	.4682						

DATE 10 FEB 75 TABULATED PRESSURE DATA - 0403

AXES 3.5-194 0403 OLD RCS ON WING LOWER SURFACE (REWAB7) ( 28 AUG 74 )

REFERENCE DATA

SRCP = 2400.0000 SQ. FT. XMRP = .0000 IN.  
 LMRP = 474.0000 IN. YMRP = .0000 IN.  
 BRCP = 936.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

PARAMETRIC DATA

BETA = -2.000 ELEVON = 1.000  
 AILRON = .000 SPDRK = .000  
 RUDDER = .000 DOFLAP = -15.700

MACH ( 1 ) = 10.800 ALPHA ( 1 ) = 29.844 RN/L = 1.738 Q = .032 PT = 1774.828

SECTION 1 LOWER WING DEPENDENT VARIABLE CP

ST/0	.30	.38	.43	.53	.67	.76	.89
W/C							
.000	.0728	.0697	.3986	1.3820	.7000	.7196	.5909
.020			.8813	1.5055	1.0873	1.0651	1.0673
.040			.4235	.8708			
.050	.4382			1.2220	.9915	.9828	.9936
.060				.9587			
.081			.8265				
.084		.5782					
.094	.5393			.7387	.8079	.8736	.8924
.150		.6944					
.163			.6980				
.177							
.229	.6151						
.246		.6704					
.250			.6335	.6591	.7712	.8149	.3458
.274							
.362	.6282						
.390		.6071					
.400			.6283	.6481	.7487		.7766
.472							
.497	.5994			.4647	.6821		
.530			.6013				
.565							
.620							.8861
.700	.5820						.5558
.750							
.834	.4425						
.850				.5828	.3871	.4075	
.857		.3774					
.865	.5604						.4680
.900	.3841		.3527				
.939		.3484	.3733				
.950		.3357		.3884			
.955		.3307					
.965	.2908						

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RECEIVED 947A

8888	199,000	88.87.	YHR	=	.0005	IN.
8889			YHR	=	.0005	IN.
8890	194,000	IM.	YHR	=	.0005	IN.
8891	958,000	IM.	YHR	=	.0005	IN.
8892		.0150				

### PARAMETRIC DATA

BETA	=	2.000	ELEVON	=	1.000
ALRON	=	.000	SPOBRK	=	.000
RUDDER	=	.000	DOFLAP	=	11.700

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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SECTION 1000

## DEPENDENT VARIABLE CP

[illegible]

272

5.00	.0332	.0320	.3276	1.0613	.6237	.6212	.4911
.020			.6445	1.4174	1.0999	1.1221	1.0695
.040		.4628	.8656				
.030	.5115			1.2693	1.1331	1.0929	1.1052
.080				1.0759			
.081			.8840				
.084		.6397					
.094	.6286			.5365	.9472	1.0025	.8991
.150		.7750					
.163			.8519				
.177							
.229	.7093						
.246		.7636					
.250			.7333	.7932	.9021	.9406	.5771
.274							
.362	.7502						
.390		.7143					
.400			.7401	.7922	.8768		.8902
.402							
.497	.7130						
.530				.6032	.6296		
.600			.7214				.8033
.700	.6930						.6672
.750							
.834	.3455						
.890				.4639	.4979	.5063	
.897			.4791				
.895	.4341						.5592
.900	.4376			.3759	.4364		
.975			.4559				
.910				.4345		.4768	
.955			.4271				
.985	.3604						



TABULATED PRESSURE DATA - 0483

DATE 10 FEB 78

AMES 3.9-194 0483 010 RCS ON WING LOWER SURFACE (REMARKS) 1 20 AUG 74

PARAMETRIC DATA  
 BETA = -2.000 ELEVON = 1.000  
 AILRON = .000 SPOBRK = .000  
 RUDDER = .000 SDPLAP = -11.700

REFERENCE DATA

REF = 2000.0000 30.07. ZMRP = .0000 IN.  
 LREF = 476.0000 IN. ZMRP = .0000 IN.  
 REF = 930.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0198

MACH (1) = 10.200 ALPHA (1) = 37.011 BW/L = 1.003 0 = 2.433 P = .033 PT = 1000.040

SECTION 1 LOWER WING				DEPENDENT VARIABLE CP			
ST/B	.30	.36	.43	.55	.67	.78	.89
R/C							
.000	.0626	.0603	.3001	.9037	.5953	.5637	.4314
.020			.7576	1.4291	1.1042	1.1075	1.0062
.040			.9395	.9634			
.050	.9929			1.3076	1.1695	1.2097	1.1029
.060				1.2114			
.081			1.0079				
.084		.7440					
.094	.7021						
.150		.9163		1.0970	1.0947	1.1402	1.1312
.163			.9303				
.177							
.229	.8276						
.246		.9160		.0000	1.0520	1.0921	.4969
.250			.8830				
.274							
.302	.8740						
.390		.8597		.9201	1.0431		1.0309
.400			.9047				
.402				.7053	.9851		
.497	.8393			.8263			
.550							.9400
.600							
.700	.8751						.7910
.750		.6938		.5913	.6196	.6212	
.810			.5950				
.837							
.865	.5403						.6696
.900	.9083			.5790			
.975			.9823	.9809			
.970			.5808	.5948			
.913			.5452				
.909	.0097						

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AMES 3-3-54 OAS 210 PCS OFF WING LOWER SURFACE (REWARD) (20 AUG 54)

## REFERENCE DATA

1987	:	\$99,000	\$0.	MM\$	=	.000	M.
1988	:	1,400	M.	MM\$	=	.000	M.
1989	:	936,000	M.	ZMB\$	=	.000	M.
1990	:	247	\$10				

## PARAMETRIC DATA

Machine	$\lambda$	$\alpha$	Alpha	$\beta$	RW	$\sigma$	$\gamma$	$\delta$	1977-1980		
Machine	1.1	10.800	Alpha	(1)	0	29.631	1.721	0	2.119	0	1977-1980

SECTION (1) LOWER WING

[illegible]

AMES 3.5-194 0A03 C10 RCS OFF WING LOWER SURFACE

(REWA11) ( 20 AUG 74 )

REFERENCE DATA

4257	8000.0000	10.01.	2480	0.0000	1 M.
4257	474.0000	1 M.	2480	0.0000	1 M.
4258	930.7000	1 M.	2480	0.0000	1 M.
4258	0.010				

### PARAMETRIC DATA

MACH	( 1 ) =	10.800	ALPHA ( 1 ) =	33.762	RW/L	=	1.023	Q	=	2.422	P	=	.039	PT	=	1001.200
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3414 2300711 1 NO14328

## DEPENDENT VARIABLE CP

27/0	.30	.36	.45	.93	.67	.78	.69
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20

808	8612	8682	3439	11039	6338	6337	4998
809			8434	14330	11344	11334	11075
810		4713	8912				
811	5101			12364	11701	10949	11149
812				10915			
813		8836					
814		6498					
815	8155						
816				9253	9433	9939	9016
817		7899					
818			7686				
819	7078						
820		7729					
821				7925	8058	9393	4020
822		7465					
823	7384						
824							
825		7130					
826				7860	8704		8988
827	7180		7325				
828				5928	8202		
829			7207				
830	8879						7914
831							8457
832	9491						
833				4879	4818	4935	
834			4835				
835	4498						
836				3498			9842
837	4735		4387		4101		
838				4385		4765	
839			4228				
840	3814						

DATE 15 FEB 75 TABULATED PRESSURE DATA - Q401

AMES 3.5-194 Q401 D15 RCS OFF WING LOWER SURFACE (REWAL12) ( 23 AUG 74 )

REFERENCE DATA

REF 1 000 30.0 FT. XREF 2 0000 IN.  
 REF 2 000 30.0 IN. XREF 3 0000 IN.  
 REF 3 000 30.0 IN. XREF 4 0000 IN.  
 SCALE 1 0150

PARAMETRIC DATA

BETA = -2.000 ELEVON 2 1.000  
 AILERON 2 .000 SP 2 .000  
 RUDDER 2 .000 DOFLAP 2 -11.700

MACH 1.1 10.000 ALPHA (1) 2 37.004 RM/L 0 1.007 0 2.433 2 .033 PT 2 1802.000

SECTION C LOWER WING DEPENDENT VARIABLE CP

REF	30	36	43	53	67	78	89
000	.0659	.0636	.3109	.9294	.5972	.5716	.4364
020	.7897	1.4425	1.1860	1.2144	1.0950		
040	.5460	.9375					
060	.5931		1.3066	1.1610	1.2360	1.1924	
080	.060		1.1827				
100	.081		1.0013				
120	.084	.7619					
140	.2144						
160	.190	.9252	1.0723	1.0835	1.1455	1.1471	
180	.103						
200	.177	.9281					
220	.8332	.9172	.9430	1.0447	1.1033	.5504	
240	.874						
260	.8701	.8744					
280	.390	.6879	9174	1.0169		1.0364	
300	.400		.8822				
320	.402						
340	.407	.6594	.8845	9726			
360	.350		.878				
380	.365						
400	.800					.9259	
420	.700	.8833					
440	.750					.7614	
460	.834	.8856					
480	.810		.5679	.5989	.6161		
500	.817	.5766					
520	.865	.5392					
540	.8717		.5591			.6710	
560	.925	.5519	.5707				
580	.910		.5397	.5615			
600	.913	.5267					
620	.881	.4967					

DATE 10 FEB 75 TABULATED PRESSURE DATA - 0483

AMES 3.5-194 0483 010 RCS ON WING LOWER SURFACE (REMAINS) ( 20 AUG 74 )

REFERENCE DATA

REF = 8000.0000 80. PT. WREF = .0000 IN.  
 LREF = 474.0000 IN. YREF = .0000 IN.  
 SREF = 936.0000 IN. ZREF = .0000 IN.  
 SCALE = .0100

PARAMETRIC DATA

BETA = 2.000 ELEVOM = 1.000  
 ALLROM = .000 SPOBRK = .000  
 RUDDER = .000 BOFLAP = -11.700

MACH ( 1 ) = 10.200 ALPHA ( 1 ) = 20.735 RM/L = 1.070 Q = 2.429 P = .033 PT = 0 1000.000

SECTION 1 11LOWER WING DEPENDENT VARIABLE CP

ST/0	.30	.36	.43	.53	.67	.78	.89
C/C							
.000	.0100	.0107	.0206	1.0100	.0421	.0416	.5093
.020			.7423	1.3073	.0942	.0702	.9804
.040		.3071	.7710				
.060	.3064			1.0770	.0726	.0212	.9333
.080				.9036			
.081			.7432				
.084		.9211					
.094	.4679			.7051	.7682	.0363	.0353
.130			.0632				
.163					.0470		
.177							
.220	.8594						
.246		.0325					
.257				.6743	.7363	.7718	.3430
.274			.5900				
.302	.0297						
.390		.0850					
.400				.6019	.6990		.7340
.402			.5033				
.407	.0032						
.497		.0032		.4250	.0490		
.530			.5762				
.583							.0219
.600							
.700	.3703						
.750							.4957
.834	.4122						
.890				.3392	.3503	.3836	
.937		.3200					
.983	.1017						.4576
.988	.3442			.3080			
.989		.3112		.3260			
.990			.3037			.3439	
.993		.2907					
.999	.2000						

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NO 630 910 80VC 761-3-3 83-V  
WING LOWER SURFACE

# PARAMETRIC DATA

BETA	=	2.000	ELEVOM	=	1.000
AILROM	=	.000	SPOBRK	=	.000
RUDDER	=	.000	SUPLAP	=	-11.700

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 04-14-2008 BY 60322 UCBAW

[illegible]

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2
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## DEPENDENT VARIABLE CP

[illegible]

## 22

.030	.0255	.0236	.2140	.7821	.5946	.5024	.3605
.050			.0100	1.3079	1.1362	1.1161	.9935
.060		.4676	.0006				
.080	.3299			1.1700	1.1065	1.1709	1.1242
.090				1.0741			
.091			.9597				
.094		.7002					
.096	.6492						
.100				1.0236	1.0609	1.1067	1.0652
.103		.0790					
.107			.6965				
.110	.7806						
.120		.6950					
.125				.9471	1.0199	1.0764	.4765
.130	.6405		.6553				
.140		.6414					
.150				.9023	.9677		1.0197
.160	.6967		.6476				
.161				.6741	.9361		
.164			.6555				
.170							.9002
.175	.6429						
.180							.7531
.184	.6104						
.190				.5613	.5702	.5894	
.196			.5466				
.200							.6568
.201	.7233						
.205	.6650			.5436	.5802		
.210			.9263				
.216				.5250		.5665	
.220			.5761				
.224	.4766						

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ANES 3.5-194 0483 OLD RCS OFF WING LOWER SURFACE

(REMARKS) ( 28 AUG 74 )

## REFERENCE DATA

REF 1 0.00000 16.71. XMRP = .0000 IN.  
 REF 2 7.00000 IN. YMRP = .0000 IN.  
 REF 3 934.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

## PARAMETRIC DATA

BETA = 2.000 ELEVON = 1.000  
 AILRON = .000 SPDBRK = .000  
 RUDDER = .000 BCLAP = -11.700

MACH ( 1 ) = 10.293 ALPHA ( 1 ) = 29.720 RM/L = 1.841 Q = 2.423 P = .033 PT = 1001.103

## SECTION 1 LOWER WING DEPENDENT VARIABLE CP

X/Y 0.30 .36 .43 .53 .67 .76 .89

.000	.0173	.0204	.2984	1.2260	.6455	.6493	.9210
.020			.7676	1.3102	1.0068	.9614	.9808
.040		.3665	.7598				
.050	.3607		1.0836	.8552	.9220	.9207	
.080			.9213				
.081			.7512				
.084		.5190					
.094	.4706						
.150			.7922	.7665	.8045	.8221	
.163		.8382					
.177			.6361				
.229	.5582						
.246		.8347					
.290			.6601	.7245	.7713	.3723	
.274		.5936					
.362	.6147						
.390		.5818					
.400			.6041	.7010		.7220	
.402							
.497	.5833		.4247	.6373			
.550							
.565			.5704				
.600						.6159	
.700	.5635						
.750							
.834	.4072						
.850			.3319	.3392	.3577		
.897		.3278					
.889	.1873						
.900	.3370		.2986			.4624	
.905		.5011		.3241			
.930			.2934			.3312	
.953							
.985	.2864		.2875				





DATE 19 FEB 78 TABULATED PRESSURE DATA - 0183

AMES 3.5-194 0183 OLD RCS OFF WING LOWER SURFACE

(REMARKS) ( 28 AUG 74 )

REFERENCE DATA

WREF = 2000.0000 SQ. FT. WREF = .0500 IN.  
 LREF = 474.0000 IN. WREF = .0000 IN.  
 RREF = 936.7000 IN. WREF = .0000 IN.  
 SCALE = .0150

PARAMETRIC DATA

BETA = 2.000 ELEVON = 1.000  
 AILERON = .000 SPOILER = .000  
 RUDDER = .000 BOFLAP = -11.700

MACH ( 1 ) = 10.290 ALPHA ( 1 ) = 33.737 RM/L = 1.817 Q = 2.421 P = .033 PT = 1000.878

SECTION ( 1 ) LOWER WING DEPENDENT VARIABLE CP

ST/8	.30	.36	.43	.53	.57	.76	.89
R/C							
.000	.0825	.0199	.2332	.9324	.5897	.5838	.4402
.020			.7781	1.3280	1.0748	1.0678	1.0295
.040		.4363	.8467				
.060	.4323			1.1503	.9869	1.0598	1.0476
.080				.9840			
.100		.8146	.8386				
.120	.5340			.9062	.8976	.9600	.9617
.140		.7693	.7620				
.160	.6664						
.180		.7337		.8114	.8588	.9149	.4457
.200			.7167				
.220	.7334						
.240		.7064		.7502	.6023		.8604
.260			.7038				
.280	.7803			.5253	.7872		
.300			.7037				
.320							
.340			.4183	.4338	.4425	.4533	.7382
.360	.6960						.6053
.380		.5118					
.400							
.420							
.440							
.460							
.480							
.500							
.520							
.540							
.560							
.580							
.600							
.620							
.640							
.660							
.680							
.700							
.720							
.740							
.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
.990							

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TABULATED PRESSURE DATA - 0403

DATE 1 FEB 75

(REVALIS) ( 28 AUG 74 )

ANES 3.5-194 0483 010 RCS OFF WING LOWER SURFACE

REFERENCE DATA

PARAMETRIC DATA

ZREF = 2499.0000 36 FT. ZMRP = .0000 IN. BETA = 2.000 ELEVOM = 1.000  
 LREF = 471.0000 IN. YMRP = .0000 IN. AILRON = .000 SPOARK = .000  
 ZREF = 936.7000 IN. ZMRP = .0000 IN. RUDDER = .000 BOFLAP = -11.700  
 SCALE = 0.180

MACH ( 1 ) = 10.800 ALPHA ( 1 ) = 37.766 RN/L = 1.969 Q = P.443 P = .033 PT = 1002.900

DEPENDENT VARIABLE CP

SECTION ( 1 ) LOWER WING

ZY/B .30 .36 .43 .53 .67 .76 .89

Z/C

.000	.0208	.0239	.2204	.8194	.5869	.5060	.3721
.020			.8147	1.3369	1.1424	1.1096	1.0761
.040		.4866	.8973				
.060	.5312		1.1755	1.1041	1.1675	1.1252	
.080			1.0716				
.081			.9490				
.084		.7044					
.094	.6481						
.150		.8815	1.0086	1.0401	1.0907	1.0764	
.183							
.177		.8916					
.229	.7894						
.246		.6594	.9372	.9977	1.0669	.9325	
.290			.8382				
.274							
.362	.9146						
.390		.8451					
.400			.8929	1.0066		.9987	
.402		.8473					
.497	.8547		.6488	.9313			
.550		.8509					
.569						.9307	
.600							.7561
.700	.8411						
.750		.8237					
.834			.5487	.9606	.5742		
.850		.5369					
.857							
.869	.8498						.8645
.900	.5573		.5336				
.909		.5085		.5492			
.950			.5117			.5505	
.955		.4894					
.969	.4693						

REF ID: A64746

082P	=	2000.0000	80.97.	XMRP	=	.0000	IN.	BETA	=	.000	ELEVON	=	4.000
082P	=	474.0000	IN.	XMRP	=	.0500	IN.	AIRLON	=	.000	SPOBRK	=	.000
082P	=	936.7000	IN.	ZMRP	=	.0000	IN.	RUDDER	=	.000	SDFLAP	=	10.300
SCALG	=				=	.0190							

## PARAMETRIC DATA

WACHM (1) =	ALPHA (1) =	RM/L	Z	P	Z	PT
WACHM (1) =	10.290	20.710	1.050	2.426	.032	1000.000

SECTION (1) FOLLOWING

Year	1950	1951	1952	1953	1954	1955
1950	27.0	30	36	43	53	67
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2/2

.000	.0445	.0472	.3578	1.3105	.8864	.8908	.5608
.020			.7798	1.4084	1.0183	1.0099	1.0246
.040	.4151		.8149				
.060	.4339			1.1658	.9083	.9465	.9722
.080				.9785			
.081			.7924				
.084	.5643						
.094	.9191			.8005	.7998	.8419	.8503
.150							
.163	.6901						
.177			.6802				
.229	.6080						
.248	.6714						
.250				.6469	.7344	.7942	.3376
.274			.6179				
.362	.6029			.8366	.7280		.7582
.390	.6078			.6134			
.400							
.402							
.497	.6122			.4409	.6698		.6616
.550			.5859				.6398
.583							
.600							
.700	.5877			.4478	.4848	.9050	
.750							
.834	.5121						
.950			.4407				
.987							
.993	.4992						.5535
.999	.4498			.4307	.3657		
.999			.4242				.4676
.950				.4273			
.955			.4021				
.989	.5457						

TABULATED PRESSURE DATA - OARS

DATE 1 FEB 74

(REMARKS) (20 AUG 74)

AMES 3.5-194 OARS 010 RCS ON WING LOWER SURFACE

REFERENCE DATA

SERP = 7450.0000 36 FT. YMRP = .0000 IN. BETA = .000 ELEVON = 4.000  
 LREF = 474.0000 IN. YMRP = .0000 IN. ALLROM = .000 SPDRK = .000  
 SERP = 930.0000 IN. YMRP = .0000 IN. RUDDER = .000 BOFLAP = 10.300  
 SCALE = 0190

WACH (1) = 10.800 ALPHA (1) = 33.003 RN/L = 1.403 Q = 2.304 P = .032 PT = 1003.030

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/C	.30	.36	.43	.53	.67	.70	.89
.002	.0401	.0467	.3123	1.0307	.0349	.0232	.4853
.020			.0604	1.4090	1.1029	1.1220	1.0602
.040		.4741	.0956				
.060	.5111		1.2220	1.0375	1.0924	1.1175	
.080			1.0756				
.081			.0608				
.084		.0340					
.094	.6103			.9692	.9561	1.0051	1.0178
.130		.7993					
.163			.8047				
.177							
.229	.7110						
.248		.7829		.0124	.9029	.9363	.3358
.250			.7408				
.274							
.302	.7091						
.390		.7397		.7725	.6797		.9056
.400							
.402			.7457				
.497	.7350			.9012	.8316		
.530			.7341				
.563							.6067
.600							
.700	.7197						.7775
.750							
.834	.9750						
.930			.9760	.9894	.6174	.6361	
.957							
.983	.8475						.6767
.990	.9739			.9674	.5604		
.993		.5373					
.995			.9369			.5403	
.996		.9210					
.999	.4003						



DATE 10 FEB 75 TABULATED PRESSURE DATA - 0483

ANES 3.5-194 0483 010 RCS ON WING LOWER SURFACE (REMARKS) ( 28 AUG 74 )

REFERENCE DATA

REF = 2000.0000 30. FT. EWRP = .0000 IN. BETA = .000 ELEVON = 4.000  
 LREF = 474.0000 IN. VWRP = .0000 IN. ALLROM = .000 SPDRK = .000  
 RREF = 530.7000 IN. ZWRP = .0000 IN. RUDDER = .000 BOFLAP = 16.300  
 SCALE = .0150

PARAMETRIC DATA

MACH ( 1 ) = 10.290 ALPHA ( 1 ) = 37.702 RM/L = 1.867 Q = 2.420 P = .033 PT = 1790.110

SECTION ( 1 ) LOWER WING DEPENDENT VARIABLE CP

X/C	.30	.36	.43	.53	.67	.78	.89
.000	.1304	.1275	.2668	.0572	.5963	.5380	.4030
.020			.0791	1.3929	1.1799	1.1021	1.0351
.040		.5276	.9337				
.050	.5975		1.3480	1.3519	1.2053	1.1749	
.060			1.1537				
.081			.9982				
.084		.7490					
.094	.6894						
.150			1.0812	1.0673	1.1278	1.1401	
.163		.9032					
.177			.9312				
.229	.8237		.9161				
.246				.9745	1.0463	1.1071	.5393
.250			.6670				
.274							
.362	.8802		.8673				
.390				.9751	1.1545	1.0479	
.400							
.402			.8814				
.467	.8754			.7228	.9752		
.550			.8902				
.565							
.600						.9394	
.700	.8563						
.750						.9124	
.834	.6900						
.850				.7227	.7533	.7763	
.897		.7112					
.865	.7970						
.900	.8920		.6993			.8091	
.905		.6426		.7217			
.937			.6855		.7267		
.953			.6584				
.965	.5727						

REWARD : \$2000 : 6441

AMES 3-3-194 CABS Q10 RCS OFF WING LOWER SURFACE

REFERENCE DATA

1967	10,000 sq. ft.	XMB	=	.0000 IN.
1968	47,000 IN.	YMB	=	.0000 IN.
1969	9,000 IN.	ZMB	=	.0000 IN.
1969				3190

ETA	=	.000	ELEVON	=	.000
AILRON	=	.000	SPDRK	=	.000
RODDER	=	.000	SCFLAP	=	16.300

MACRO	ALPHA	IN/1	Q	P	PT	1799.010
1	10.000	11	29.710	1.039	1.423	1799.010

9M14 62M0711 1 MC1A328

## DEPENDENT VARIABLE CP

2710	.50	.43	.33	.07	.76	.09
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.000	.0306	.0514	.3659	1.3372	.6839	.8914	.3686
.020			.7733	1.4103	1.0039	1.0727	1.0260
.040		.4116	.7994				
.060	.4303			1.1500	.9004	.9361	.9613
.080				.9658			
.081							
.084		.5602					
.094	.5106			.7793	.7815	.8352	.8416
.130		.6943					
.163			.4712				
.177							
.220	.5572						
.246		.6726					
.250				.6322	.7369	.7776	.3760
.274			.6044				
.302	.6765						
.390		.6037		.6243	.7156		.7502
.400							
.402			.6109				
.467	.6039			.4142	.6606		.6477
.503			.5000				.6362
.600							
.700	.5755						
.750							
.834	.4666						
.890				.4416	.4711	.4966	
.937							
.969	.4916						.3590
.990	.4477			.4106			
.999		.4119		.4500			
.990			.3917				.4523
.993							
.999	.3303		.3223				

TABULATED PRESSURE DATA - 0483

AMES 3.3-194 0483 010 RCS OFF WING LOWER SURFACE (REMARKS) ( 28 AUG 74 1

REFERENCE DATA

REF = 2000.0000 30. FT. XMRP = .0000 IN.  
 LREF = 476.0000 IN. YMRP = .0000 IN.  
 BREF = 936.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = 0.000  
 ALLROM = .000 SPOBRK = .000  
 RUDDER = .000 SDPLAP = 10.300

MACH ( 1 ) = 10.890 ALPHA ( 1 ) = 33.661 RW/L = 1.432 0 = 2.337 P = .032 PT = 1004.000

SECTION 1 LOWER WING DEPENDENT VARIABLE CP

X/Y = .30 .36 .43 .53 .67 .70 .89

X/C

.000	.0491	.0494	.3176	1.0770	.0383	.0295	.4970
.020			.0950	1.4060	1.0927	1.1223	1.0641
.040		.4713	.0792				
.059	.9060			1.2139	1.0264	1.0876	1.1109
.080				1.0838			
.081			.0834				
.084		.9333					
.094	.0000			.9499	.9403	.9910	1.0043
.130			.0058				
.163					.7662		
.177							
.229	.7038						
.246		.7676					
.250				.7931	.8936	.9376	.3943
.274			.7535				
.362	.7553						
.390		.7221					
.400				.7639	.0713		.8976
.402			.7323				
.497	.7243						
.530			.7113	.4772	.8167		
.569							
.600				.5669	.6024	.6262	
.700	.7049		.5631				.7610
.750							.7691
.834	.9719						
.850							
.877							
.883	.6412						
.900	.5852			.5518	.0000		.6610
.903			.5408				
.950			.5234			.5772	
.953			.5107				
.981	.4996						

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DATE 15-11-71 TABULATED PRESSURE DATA - 0403

AMES 3.8-194 0403 010 RCS OFF WING LOWER SURFACE

REFERENCE DATA

REF 1 175 2000 50.0 FT. RMP 1 .0000 IN.  
REF 2 4.4 2000 10.0 FT. RMP 2 .0000 IN.  
REF 3 116 2000 10.0 FT. ZMP 1 .0000 IN.  
SCALE 1 5150

PARAMETRIC DATA

BETA 2 .000 ELEVOM 2 4.000  
ALTRON 2 .000 SPDRAL 2 .000  
RUDDER 2 300 BDFACE 2 10.300

MACH 1 10.800 ALPHA (1) 2 37.777 RAYL 2 1.848 Q 2 .033 PT 2 1760 230

SECTION 1 BLOWER WING

STATION	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
17/C															
.000	.1400	.1442	.2763	.8026	.5953	.5524	.4120								
.020			.0006	1.3910	1.1781	1.1687	1.0744								
.040		.5359	.9289												
.060	.3802			1.3950	1.4132	1.1914	1.1752								
.080				1.1303											
.100			.7492	.9956											
.120	.6952				1.0605	1.0782	1.1272	1.1345							
.140		.9150	.9299												
.160	.8274	.9280		.8844	.9644	1.0453	1.0875	.6750							
.180	.9150	.8703			.9124	1.1833	1.0311								
.200			.8825												
.220	.8750		.8740	.7581	.9569										
.240															
.260	.8537														
.280	.8779			.7117	.7459	.7514									
.300			.6953												
.320	.7920			.8650	.7073										
.340	.8600														
.360			.8819												
.380				.8810											
.400															
.420															
.440															
.460															
.480															
.500															
.520															
.540															
.560															
.580															
.600															
.620															
.640															
.660															
.680															
.700															
.720															
.740															
.760															
.780															
.800															
.820															
.840															
.860															
.880															
.900															
.920															
.940															
.960															
.980															
.1000															





7140 320224Z

9860	=	880.000	10	PI.	2484	=	.0000	1 M.
(987)	=	474.000	1M.		2485	=	.0000	1 M.
9880	=	910.700	1M.		2486	=	.0000	1 M.
9890	=						.0150	

NAME	AGE	SEX	REL	DATE	TIME	PLACE	REMARKS
ALPHA	11	M	1	1977	11	11	11
BETA	11	M	1	1977	11	11	11
GAMMA	11	M	1	1977	11	11	11
DELTA	11	M	1	1977	11	11	11
EPSILON	11	M	1	1977	11	11	11
ZETA	11	M	1	1977	11	11	11
ETA	11	M	1	1977	11	11	11
THETA	11	M	1	1977	11	11	11
IOTA	11	M	1	1977	11	11	11
KAPPA	11	M	1	1977	11	11	11
LAMDA	11	M	1	1977	11	11	11
MU	11	M	1	1977	11	11	11
NU	11	M	1	1977	11	11	11
Xi	11	M	1	1977	11	11	11
OMEGA	11	M	1	1977	11	11	11
PHI	11	M	1	1977	11	11	11
CHI	11	M	1	1977	11	11	11
PSI	11	M	1	1977	11	11	11
OMEGA	11	M	1	1977	11	11	11
PHI	11	M	1	1977	11	11	11
CHI	11	M	1	1977	11	11	11
PSI	11	M	1	1977	11	11	11
OMEGA	11	M	1	1977	11	11	11
PHI	11	M	1	1977	11	11	11
CHI	11	M	1	1977	11	11	11
PSI	11	M	1	1977	11	11	11
OMEGA	11	M	1	1977	11	11	11
PHI	11	M	1	1977	11	11	11
CHI	11	M	1	1977	11	11	11
PSI	11	M	1	1977	11	11	11
OMEGA	11	M	1	1977	11	11	11
PHI	11	M	1	1977	11	11	11
CHI	11	M	1	1977	11	11	11
PSI	11	M	1	1977	11	11	11
OMEGA	11	M	1	1977	11	11	11
PHI	11	M	1	1977	11	11	11
CHI	11	M	1	1977	11	11	11
PSI	11	M	1	1977	11	11	11
OMEGA	11	M	1	1977	11	11	11
PHI	11	M	1	1977	11	11	11
CHI	11	M	1	1977	11	11	11
PSI	11	M	1	1977	11	11	11
OMEGA	11	M	1	1977	11	11	11
PHI	11	M	1	1977	11	11	11
CHI	11	M	1	1977	11	11	11
PSI	11	M	1	1977	11	11	11
OMEGA	11	M	1	1977	11	11	11
PHI	11	M	1	1977	11	11	11
CHI	11	M	1	1977	11	11	11
PSI	11	M	1	1977	11	11	11
OMEGA	11	M	1	1977	11	11	11
PHI	11	M	1	1977	11	11	11
CHI	11	M	1	1977	11	11	11
PSI	11	M	1	1977	11	11	11
OMEGA	11	M	1	1977	11	11	11
PHI	11	M	1	1977	11	11	11
CHI	11	M	1	1977	11	11	11
PSI	11	M	1	1977			

## PARAMETRIC DATA

BETA	=	-2.000	ELEVON	=	4.000
AILRON	=	.300	SPDRK	=	.000
RUDDER	=	.000	BOFLAP	=	16.300

SECTION 110000 WING  
DEPENDENT VARIABLE CP

2970	39	.36	.43	.33	.67	.70	.89
------	----	-----	-----	-----	-----	-----	-----

20

000	.0587	.0376	.4285	1.5021	.7322	.7472	.6100
020			.9299	1.5375	1.0969	1.0836	1.0927
040		.4421	.9099				
060	.4643			1.1416	.9660	.9986	1.0265
080				.9545			
001			.6864				
024	.9676	.6075		.7493	.6367	.6902	.9015
100		.7594					
165			.7559				
177							
229	.6431						
246		.7081					
259				.6547	.7651	.8744	.5720
274			.6620				
362	.6672						
390		.6582		.6860	.7531		.8729
400			.6485				
472							
607	.6341			.4752	.7115		.7035
650			.6171				
683							
700	.6757						
790							
814	.6613						
840							
897			.4750	.4782	.4643	.5196	
905	.6370						
910	.4616			.4591	.4860		.5655
915			.4510				
940				.4149		.4943	
951			.4213				
964	.5909						





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DATE 16 FEB 75 TABULATED PRESSURE DATA - 0403

AMES 315-194 0403 OLD RCS ON WING LOWER SURFACE (REWAS1) 1 28 AUG 74 )

REFERENCE DATA

MACP = 2000.0000 50.00 IN. XMRP = .0000 IN.  
 MACP = 476.8000 IN. XMRP = .0000 IN.  
 MACP = 936.7000 IN. XMRP = .0000 IN.  
 SCA E = .3150

PARAMETRIC DATA

BETA = 2.000 ELEVON = 4.000  
 ALLRON = .000 SPDRRA = .000  
 RUDDER = .000 BOPLAP = 18.300

MACM (1) = 10.200 ALPHA (1) = 29.746 RN/L = 1.924 Q = 2.463 P = .033 PT = 1024.908

SECTION 1 LOWER WING DEPENDENT VARIABLE CP

2778 .30 .30 .43 .55 .67 .78 .89

X/C

.000	.0423	.0423	.2961	1.2024	.6515	.6360	.9135
.020			.7726	1.3075	.9850	.9729	.9754
.040		.5833	.7865				
.060	.4088		1.0703	.6679	.9124	.9422	
.080			.9070				
.081			.7642				
.084		.5386					
.094	.4838			.9334	.7747	.6159	.6270
.130							
.163		.6637					
.177		.6640					
.229	.5819						
.248		.5532					
.250			.6030	.6637	.7234	.7698	.3241
.274							
.362	.6168						
.380		.5974					.7583
.400				.6062	.7054		
.402			.5975				
.497	.6007						
.510			.4523	.6592			
.553		.5865					.6350
.600							
.700	.5798						.6215
.750							
.834	.4928						
.850			.4487	.4644	.4890		
.857		.4383					
.885	.2905						.9404
.900	.4447		.4275	.4514			
.903		.4178					
.950			.4093	.4554			
.953		.3901					
.969	.3454						





AMES 5-5-134 0483 D10 RCS ON WING LOWER SURFACE

(REMARKS) ( 28 AUG 74 )

## REFERENCE DATA

XREF = 2000.0000 30. FT. XMRP = .0000 IN.  
 YREF = 474.0000 IN. YMRP = .0000 IN.  
 ZREF = 936.1000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

## PARAMETRIC DATA

BETA = 2.030 ELEVON = 4.000  
 AILERON = .000 SPOBRK = .000  
 RUDDER = .000 BOFLAP = 16.300

MACH ( 1 ) = 10.800 ALPHA ( 1 ) = 37.719 RH/L = 1.017 Q = 2.421 P = .033 PT = 1800.020

## SECTION 1 LOWER WING DEPENDENT VARIABLE CP

X/Y	.30	.36	.43	.53	.67	.78	.89	
X/C	.000	.0211	.0215	.2165	.0006	.5962	.5022	.3669
	.050		.8161	1.3422	1.1021	1.1409	.9998	
	.040		.4955	.9081				
	.050	.5363		1.2009	1.1025	1.1855	1.1271	
	.060			1.0944				
	.081		.9505					
	.084		.7069					
	.094	.6810						
	.150		.8908	1.0181	1.0554	1.1174	1.0837	
	.163							
	.177		.6920					
	.229	.0740						
	.246		.6983					
	.250			.9387	1.0158	1.0829	.4626	
	.274		.6325					
	.362	.0834						
	.390		.0701					
	.400			.031	.7323		1.0135	
	.432		.6369					
	.497	.0750		.6691	.9296			
	.550		.8308					
	.565							
	.600							
	.700	.8501					.9044	
	.750							
	.834	.6480						
	.850			.6952	.7213	.7262		
	.857		.8770					
	.865	.2733						
	.900	.6684		.6618			.7917	
	.905							
	.950		.6480	.7028				
	.950			.6503			.6869	
	.953							
	.965	.5491		.6024				

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## Y40 JUL 17 1969 PRESSURE DATA - DAB3

AMES 5-5-196 CABO D'OR. OFF. JING. OVER. PAGE 20. 5 74

[illegible]

1950	1,000	100	1,000	100	1,000	100
1951	1,000	100	1,000	100	1,000	100
1952	1,000	100	1,000	100	1,000	100
1953	1,000	100	1,000	100	1,000	100
1954	1,000	100	1,000	100	1,000	100
1955	1,000	100	1,000	100	1,000	100
1956	1,000	100	1,000	100	1,000	100
1957	1,000	100	1,000	100	1,000	100
1958	1,000	100	1,000	100	1,000	100
1959	1,000	100	1,000	100	1,000	100
1960	1,000	100	1,000	100	1,000	100
1961	1,000	100	1,000	100	1,000	100
1962	1,000	100	1,000	100	1,000	100
1963	1,000	100	1,000	100	1,000	100
1964	1,000	100	1,000	100	1,000	100
1965	1,000	100	1,000	100	1,000	100
1966	1,000	100	1,000	100	1,000	100
1967	1,000	100	1,000	100	1,000	100
1968	1,000	100	1,000	100	1,000	100
1969	1,000	100	1,000	100	1,000	100
1970	1,000	100	1,000	100	1,000	100
1971	1,000	100	1,000	100	1,000	100
1972	1,000	100	1,000	100	1,000	100
1973	1,000	100	1,000	100	1,000	100
1974	1,000	100	1,000	100	1,000	100
1975	1,000	100	1,000	100	1,000	100
1976	1,000	100	1,000	100	1,000	100
1977	1,000	100	1,000	100	1,000	100
1978	1,000	100	1,000	100	1,000	100
1979	1,000	100	1,000	100	1,000	100
1980	1,000	100	1,000	100	1,000	100
1981	1,000	100	1,000	100	1,000	100
1982	1,000	100	1,000	100	1,000	100
1983	1,000	100	1,000	100	1,000	100
1984	1,000	100	1,000	100	1,000	100
1985	1,000	100	1,000	100	1,000	100
1986	1,000	100	1,000	100	1,000	100
1987	1,000	100	1,000	100	1,000	100
1988	1,000	100	1,000	100	1,000	100
1989	1,000	100	1,000	100	1,000	100
1990	1,000	100	1,000	100	1,000	100
1991	1,000	100	1,000	100	1,000	100
1992	1,000	100	1,000	100	1,000	100
1993	1,000	100	1,000	100	1,000	100
1994	1,000	100	1,000	100	1,000	100
1995	1,000	100	1,000	100	1,000	100
1996	1,000	100	1,000	100	1,000	100
1997	1,000	100	1,000	100	1,000	100
1998	1,000	100	1,000	100	1,000	100
1999	1,000	100	1,000	100	1,000	100
2000	1,000	100	1,000	100	1,000	100
2001	1,000	100	1,000	100	1,000	100
2002	1,000	100	1,000	100	1,000	100

100

SECT	CH	PER	WING	DEPENDENT	VARIABLE	CO
8778	30	.58	43	.53	.78	.89
900	0483	0473	3043	1.2327	6434	.8436
920			.7760	1.3108	9710	9675
940		.3877	.7793			
960	.4040			1.0732	.8688	.9039
980				.9078		
001			.7622			
004		.3392				
004	.4871					
110				.7937	.7634	.8104
183		.8871				.6216
177			.6612			
220	.3738					
240		.6561		.6549	.7153	.7816
210			.5931			.3440
274						
382	.3180					
390		.8044		.6008	.6933	.7297
400						
402			.3932			
497	.3380					
510			.3787	.7383	.4353	
583						.6243
600						.6160
700	.3780					
790						
834	.4318			.6384	.4330	.4773
890			.4303			
897						
885	.2844					
900	.4421			.4202	.4400	.5164
973			.4100			
970				.3990		.4487
913			.3917			
993	.3438					



DATE 10 FEB 75 TABULATED PRESSURE DATA - QAL

AMES 3-5-194 DAB3 D10 RCS OFF WING OVER SURFACE (REWASS) ( 20 AUG 74 1

REFERENCE DATA

REF 1 2000.0000 10.000 14RP 1 .0000 IN 2.000 ELEVOM 1 4.000  
 REF 2 474.0000 14. 14RP 2 .0000 IN. .000 SPDRK 1 .000  
 REF 3 636.7000 14. 14RP 3 .0000 IN .000 BOFLAP 1 10.300  
 SCALE 1 .0190

PARAMETRIC DATA

BETA 1 2.435 P 1 .033 PT 1 1700.870  
 ALLROM 1  
 RUDDER 1

MACH ( 1 ) 1 10.000 ALPHA ( 1 ) 1 33.750 RM/L 1 1.935 Q 1 2.435 P 1 .033 PT 1 1700.870

SECTION 1 ( LOWER WING DEPENDENT VARIABLE CP

2770 .30 .36 .43 .53 .67 .76 .69

R/C

.000 .0420 .0430 .2702 .9039 .9981 .9948 .4347  
 .020 .7973 1.3220 1.0651 1.0520 1.0131  
 .040 .4395 .0366  
 .050 .4700 1.1153 .9705 1.0395 1.0337  
 .060 .9945  
 .081 .0550  
 .084 .8130  
 .094 .5644  
 .150 .7772  
 .183 .7645  
 .177 .7651  
 .229 .6744  
 .246 .7206  
 .290 .7206  
 .274 .7197  
 .302 .7133  
 .400 .7513 .9329 .8579  
 .402 .7133  
 .497 .7159  
 .550 .5470 .7040  
 .569 .7120  
 .600 .5712 .5844 .5940  
 .700 .7630  
 .750 .7460  
 .814 .5465  
 .830 .5465  
 .837 .5465  
 .843 .4618  
 .900 .5437  
 .921 .5105 .5493 .8254  
 .950 .5174 .5613  
 .951 .4994  
 .985 .4711

AMES 3.5-194 DABS OLD RCS DEF WING DEF 5 WFOPE

PREWABE 1 20 6 74

## REFERENCE DATA

REF	1	8000	0000	10	FT.	TEMP	1	0000	IN.	BE <sub>1</sub>	1	2.000	ELEVON	1	1.000
REF	2	174	8000	10	IN.	TEMP	1	0000	IN.	ALC	1	1.000	SPORER	1	1.000
REF	3	935	1000	10	IN.	TEMP	1	0000	IN.	ALC	1	1.000	80F	1	16.300
SCA	1	0190													

MACH	1	1.0	10.280	ALPHA	1	17	1	37.715	RN/A	1	1.925	Q	1	2.425	P1	1	1000.160
------	---	-----	--------	-------	---	----	---	--------	------	---	-------	---	---	-------	----	---	----------

## SECTION 1 10.280 WING

## DEPENDENT VARIABLE CP

REF	1	30	30	45	55	67	70	89
-----	---	----	----	----	----	----	----	----

## C/C

1000	0.0223	0.0226	0.0228	0.0224	0.059	0.5160	0.3719
0020			0.157	1.5294	1.1482	1.1000	1.0076
040		0.4982	0.9082				
090	0.5207			1.1003	1.0965	1.1622	1.1120
080				1.0774			
081			0.5349				
084		0.7046					
094	0.6454			0.9568	1.0482	1.0934	1.0779
150		0.8036					
185							
177			0.799				
229	0.7697						
248		0.970					
250				0.9258	1.0113	1.0659	0.9363
274			0.493				
302	0.8011	0.8435					
390				0.901	0.8238		0.9443
400							
402			0.524				
497	0.5592			0.619	0.547		
590			0.889				
585							0.870
600							0.842
700	0.5348						
790	0.6504						
834							
890			0.557	0.755	0.643	0.674	
857							
905	0.2612						
900	0.6181			0.545			0.7478
909			0.251		0.713		
980				0.8297		0.753	
095			0.404				
085	0.558						



TABULATED PRESSURE DATA - 0483

WING 3 3-134 0483 010 RCS ON WING LOWER SURFACE

REMARKS

1 20 AUG 74

REFERENCE DATA

REF 1 2690 7000 30 FT. ZMRP 1 0000 IN. 0000 ELEVON 1 18.000  
 REF 2 474.0000 IN. ZMRP 2 0000 IN. 0000 SPOKE 2 1.000  
 REF 3 936 7000 IN. ZMRP 3 0000 IN. 0000 RUDGER 3 11.700  
 SCALE 1 0150

PARAMETRIC DATA

REF 1 2690 7000 30 FT. ZMRP 1 0000 IN. 0000 ELEVON 1 18.000  
 REF 2 474.0000 IN. ZMRP 2 0000 IN. 0000 SPOKE 2 1.000  
 REF 3 936 7000 IN. ZMRP 3 0000 IN. 0000 RUDGER 3 11.700

WING 1 11 1 7.320 ALPHA (1) 1 23.775 RM/L 1 9.411 0 1 12.020 P 1 1.320 PT 1 1708.020

DEPENDENT VARIABLE CP

SECTION 1 LOWER WING

REF 1 11 1 7.320 ALPHA (1) 1 23.775 RM/L 1 9.411 0 1 12.020 P 1 1.320 PT 1 1708.020

REF

ORIGINAL PAGE 1  
 OF 1000

AMES 3 3-194 0483 J19 405 IN WING LOWER SURFACE

REFERENCE DATA

REF	1000 0000 50 PT.	REF	1	0000 IN.	BETA	0.000	ELEV	0.000
REF	474 8000 IN.	REF	2	0000 IN.	AT	0.000	SPEED	0.000
REF	439 7000 IN.	REF	3	0000 IN.	REF	0.000	REF	-111.700
REF	0190							

PARAMETRIC DATA

WING	1.320	ALPHA	1.113	27.002	RM/L	0.9262	Q	12.007	P	320	PT	1795	P70
------	-------	-------	-------	--------	------	--------	---	--------	---	-----	----	------	-----

SECTION 1 FOLLOWER WING

REF	30	36	43	53	67	78	89
-----	----	----	----	----	----	----	----

REF	000	0223	0231	3484	1.2445	7699	8944	5922
020				0262	1.2345	1.0234	9375	1.0414
040			3556	0161				
050	4134			1.3206	8749	8949	9310	
080				9652				
081			7841					
084		3323						
084	4020				7659	7417	7744	8160
150		6565						
177			6660					
226	8011							
246		6334			6534	6071	7609	4943
250			5596					
274								
362	8348							
390		6726			5613	6491		6507
400								
402			3726					
467	8143				4724			
510			8121					
563								
600								
600	3664							
634	1400				1626	1114	1677	
650								
697			1663					
697								
697	1071							
700	1901				1444			2144
709			1476		1494			
957					1721		1457	
957			1540					
965	1465							



**SECRET**

[illegible]

# PARAMETRIC DATA

AREA =	.000	EVOM =	..0.000
ALROM =	.000	SPBR =	.000
BUDDER =	.000	BOFAR =	..1.700

DATE	DESCRIPTION	AMOUNT	BALANCE
1987.01.01	OPENING BALANCE	0.00	0.00
1987.01.05	PAYROLL	1.00	1.00
1987.01.10	RENT	2.00	3.00
1987.01.15	UTILITIES	0.50	3.50
1987.01.20	FOOD	1.50	5.00
1987.01.25	TRANSPORT	0.50	5.50
1987.01.30	ENTERTAINMENT	1.00	6.50
1987.02.05	RENT	2.00	8.50
1987.02.10	UTILITIES	0.50	9.00
1987.02.15	FOOD	1.50	10.50
1987.02.20	TRANSPORT	0.50	11.00
1987.02.25	ENTERTAINMENT	1.00	12.00
1987.03.01	CLOSING BALANCE	0.00	12.00

2011 03 11 1 00 11 00

## DEPENDENT VARIABLE C.D.

	1960	1961	1962	1963	1964	1965
1. Total population	100.0	100.0	100.0	100.0	100.0	100.0
2. Male	50.0	50.0	50.0	50.0	50.0	50.0
3. Female	50.0	50.0	50.0	50.0	50.0	50.0
4. Under 15 years	30.0	30.0	30.0	30.0	30.0	30.0
5. 15-64 years	60.0	60.0	60.0	60.0	60.0	60.0
6. 65 years and over	10.0	10.0	10.0	10.0	10.0	10.0
7. Single	40.0	40.0	40.0	40.0	40.0	40.0
8. Married	50.0	50.0	50.0	50.0	50.0	50.0
9. Divorced	5.0	5.0	5.0	5.0	5.0	5.0
10. Widowed	5.0	5.0	5.0	5.0	5.0	5.0
11. Never married	40.0	40.0	40.0	40.0	40.0	40.0
12. Currently married	50.0	50.0	50.0	50.0	50.0	50.0
13. Previously married	10.0	10.0	10.0	10.0	10.0	10.0
14. Single, never married	40.0	40.0	40.0	40.0	40.0	40.0
15. Single, previously married	5.0	5.0	5.0	5.0	5.0	5.0
16. Married, currently	50.0	50.0	50.0	50.0	50.0	50.0
17. Married, previously	5.0	5.0	5.0	5.0	5.0	5.0
18. Divorced	5.0	5.0	5.0	5.0	5.0	5.0
19. Widowed	5.0	5.0	5.0	5.0	5.0	5.0
20. Single, never married	40.0	40.0	40.0	40.0	40.0	40.0
21. Single, previously married	5.0	5.0	5.0	5.0	5.0	5.0
22. Married, currently	50.0	50.0	50.0	50.0	50.0	50.0
23. Married, previously	5.0	5.0	5.0	5.0	5.0	5.0
24. Divorced	5.0	5.0	5.0	5.0	5.0	5.0
25. Widowed	5.0	5.0	5.0	5.0	5.0	5.0

20

0000	0243	0266	2978	10362	0926	0142	4091
080			660	12917	11304	11934	10904
040		6187					
050	6021			10730	0860	10908	10473
000				10834			
081			8775				
084		6300					
064	5874						
150				9153	0863	0443	9633
163		7748					
177			8091				
220	7910						
240		9879					
232				8182	8358	0209	5511
274			7032				
302	7710						
300		5430					
403			7240	7499	8110		8466
402							
497	7714						
152				8133	8363		
163			7820				
871							8690
707	7139						
730							
834	2503						2012
880			2431	2920	2522	2404	
917							
883	0092						
870	2720		2238	2313	2389		2619
874							
910			2072	2018		2312	
911							
963	2502						

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DATE 10 FEB 75 TABULATED PRESSURE DATA - 0405

AREA 3.5-134 0405 DID RCS OFF WING LOWER SURFACE

REMARKS

1 28 AUG 74

PARAMETRIC DATA

BETA = 000 ELEVOM = -0.000  
 ALEROM = 0.000 SPORRA = 0.000  
 RUDDER = 0.000 BOKLAP = -11.700

REFERENCE DATA

REF 1 0000.0000 30 PT 0000 IN  
 REF 2 474 0000 IN 0000 IN  
 REF 3 930 0000 IN 0000 IN  
 SCALE 1 0100

MACH 1.10 1 7.320 ALPHA 1 27.810 MVL 2 7.905 3 11.910 4 .313 PT 1 1795.300

SECTION 1 LOWER WING DEPENDENT VARIABLE C/P

8770 30 38 43 53 67 78 89

77C

000	0174	0170	0041	1.2207	7294	0009	0664
020			0149	1.2049	0054	0503	0945
040	3050		07046				
060	4100		1.0704	0053	0001	09403	
080			9551				
100			7593				
120	4004		9223				
140			0407	7940	7700	07005	00003
160	0640		0440				
180			0304				
200	0750		0339	0030	7102	7523	09950
220							
240	0770		0742	5944	7162		7100
260			0600	0055	0305		
280							0233
300	0507						0436
320	0645						
340			1000	1900	01035	1923	
360	0091						2400
380	0107		1724	01759			
400			1945	01713			1730
420			1000				
440	1337						



TABULATED PRESSURE DATA - DABS

AMES 3 5-194 DABS 310 EPS ON WIND TOWER SURFACE (REMARKS) 1 26 AUG 74 )

REFERENCE DATA

REF	1	2650	5000	30	PT.	TEMP	1	0000	IN	BETA	1	000	ELEVOM	1	0000
REF	2	474	0050	1M		TEMP	2	0000	IN	ALLISON	2	000	SPDBRK	2	000
REF	3	636	2050	1M		TEMP	3	0000	IN	RJDOER	3	000	SCFLAP	3	000
SCALE															

PARAMETRIC DATA

MACH	1	11.7	7.380	ALPHA	1	11.7	23	730	RM/L	2	9.797	3	12.053	4	1797.700
------	---	------	-------	-------	---	------	----	-----	------	---	-------	---	--------	---	----------

SECTION 1 - LOWER WING DEPENDENT VARIABLE CP

REF	1	30	30	43	33	67	78	89
000	0837	0283	03789	1	4369	7827	17448	16201
080			7504	1	2084	8628	7676	18440
040			3046		7161			
030	3806				09277	7322	17487	17137
020					10357			
010					6478			
004	3909				4263			
000								
000					0814	6306	6317	16297
000					3233			
000	4390				5272			
000								
000					4915			
000								
000					4770	3485	5902	13442
000	4921				4459			
000								
000					4387			
000								
000					4590	5146		15560
000	478				4437			
000	4351							
000								
000					3316	4689		
000					4262			
000								
000	4114							
000								
000	1502							
000								
000					7197			
000								
000	0890							
000	2310				1940			2962
000								
000					1990	2119		2239
000					1781			
000					1667			
000	1040							

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OF RECORD

AMES 315-154 DABS 510 RCS ON WING LOWER SURFACE

(REMARKS) 1 28 415 72 1

## REFERENCE DATA

1407 1 1000 0100 99. FT. 1407 1 1000 0100 99. FT. 1407 1 1000 0100 99. FT.  
 REF 1 1000 0100 99. FT. 1407 1 1000 0100 99. FT. 1407 1 1000 0100 99. FT.  
 8077 1 1000 0100 99. FT. 1407 1 1000 0100 99. FT. 1407 1 1000 0100 99. FT.  
 104 V 1 1000 0100 99. FT. 1407 1 1000 0100 99. FT. 1407 1 1000 0100 99. FT.

## PARAMETRIC DATA

BETA = 1.000 ELEVON = 1.000  
 ATTORN = 1.000 SPBRK = 1.000  
 CUSPER = 0.000 85.000 16.000

WING 1 1 7.320 ALPHA (1) 8 27.834 BN/L = 7.141 Q = 11.844 P = .516 PT = 1796.970

## SECTION 1 - LOWER WING

## DEPENDENT VARIABLE CP

27.8 30 .36 .43 .53 .67 .78 .89

1/C

.000	.0133	.0230	.3363	1.2508	.7636	.6873	.5865
.020			.6312	1.2690	1.0017	.9992	1.0344
.040		.3498	.6113				
.050	.4155			1.0098	.8824	.9023	.9217
.080				.9542			
.081			.7571				
.084		.5330					
.094	.4869						
.150				.7827	.7670	.7830	.8189
.163		.6385					
.177			.6637				
.229	.5983						
.248		.6578					
.250				.6663	.7666	.7621	.4270
.274			.5683				
.362	.8232						
.390		.6045					
.400			.5693	.5879	.6604		.7002
.407	.5988			.4477	.5167		
.530			.6146				
.585							.7039
.600				.5193	.5275	.5414	
.700	.5555		.5070				
.750				.2946			.3981
.834	.1723			.2847	.3186		
.890				.2633		.3187	
.897				.2639			
.905	.0838						
.900	.5273						
.903							
.950							
.953							
.965	.2698						



TABULATED PRESSURE DATA - 0403

AMES 3.5-194 DARS 312 MCS ON WING LOWER SURFACE (REMARKS: 1 20 AUG 74 )

REFERENCE DATA

312V : 2000.0000 13.71. XMRP : .0000 IN.  
 312V : 474.0000 14. XMRP : .0000 IN.  
 312V : 916.7000 15. XMRP : .0000 IN.  
 SCALE : .0150

PARAMETRIC DATA

BETA : .000 ELEVON : 1.000  
 AILERON : .000 SPOBRK : .000  
 RUDDER : .000 BOFLAP : 10.300

MACH (1) : 7.320 ALPHA (1) : 31.679 RM/L : 7.481 Q : 11.000 P : .316 PT : 1795.000

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

RY/B	.30	.36	.43	.53	.67	.76	.89
W/C							
.000	.0272	.0273	.2993	1.0600	.6979	.6208	.4954
.020			.8652	1.2744	1.1048	1.0956	1.0779
.040		.4093	.8744				
.060	.4902			1.0698	.9830	1.0327	1.0271
.080				1.0484			
.100			.8423				
.120	.6330						
.140	.5819			.9016	.8619	.9229	.9464
.160		.7753					
.180			.7111				
.200	.7488						
.220				.7986	.8443	.8985	.9329
.240			.6917				
.260	.7696						
.280		.7430					
.300				.7309	.7999		.6075
.320			.6980				
.340	.7592						
.360				.5471	.6372		
.380		.7410					
.400							.8433
.420							.2677
.440							
.460				.4232	.4371	.4376	
.480		.4051					
.500	.0923						
.520	.4144			.3976			.4780
.540		.3793			.4111		
.560			.3633			.4119	
.580			.5936				
.600	.3986						

TABLED PRESSURE DATA - DARS

AMES 3.5-194 3483 D10 405 OFF WING LOWER SURFACE

PARAMETRIC DATA

REF 1 18.000 50.000 IN. YMRP 1 1.0000 IN. REF 2 4.0000 IN. YMRP 2 1.0000 IN. REF 3 5.0000 IN. YMRP 3 1.0000 IN. SCALE 1 0.150

MACH 0.3 ALPHA 1.325 23.740 RNTL 0.543 0 RNTL 11.578 0.319 PT 1798 180

DEPENDENT VARIABLE CP

SECTION 1 LOWER WING

RY/B	.30	.36	.43	.53	.67	.78	.89
CP							
.000	.0156	.0182	.3730	1.4892	.7527	.7629	.6315
.020			.7446	1.1987	.6711	.7927	.8559
.040		.5086	.7069				
.060	.5364		.9924	.7452	.7567	.7252	
.080			.8380				
.081			.6519				
.084	.5681	.4280					
.094				.6630	.6030	.6318	.6357
.130		.5294					
.163			.5133				
.177	.4696						
.229		.5047		.4635	.5552	.5961	.5421
.248			.4682				
.250							
.274	.4479						
.362		.4464					
.390				.4556	.5476		.5570
.408							
.402			.4396				
.497	.4398			.3501	.4700		
.530			.4304				
.565							
.600							.4763
.700	.4312						.3776
.750							
.834	.2208			.2038	.2188	.2429	
.850		.2110					
.857							
.863	.0848						.2397
.900	.2521		.1946	.1972			
.908				.2030			
.930			.1723			.2233	
.953		.1859					
.969	.1819						



DATE 10 FEB 75 TAB. AITD PRESSURE DATA - 0483

AMES 3.5-154 0483 010 RCS OFF WING LOWER SURFACE (RENA47) ( 20 AUG 74 )

REFERENCE DATA

XREF = 2000 0000 50 FT. XREF = 0000 IN.  
 YREF = 474 0000 IN. YREF = 0000 IN.  
 ZREF = 936 0000 IN. ZREF = 0000 IN.  
 SCALE = 0.150

PARAMETRIC DATA

BETA = 0.000 ELEVON = 1.000  
 ALLISON = 0.000 SPEEDBRK = 0.000  
 RODER = 0.000 BOFLAP = 16.300

MACH ( 1 ) = 7.320 ALPHA ( 1 ) = 27.006 RN/L = 9.400 Q = 11.929 P = .310 PT = 1793.010

SECTION ( 1 ) LOWER WING DEPENDENT VARIABLE CP

RY/R .30 .36 .43 .53 .67 .78 .89

X/C

.000	.0169	.0176	.3116	1.2433	.7359	.7050	.5502
.020			.7680	1.2759	.9744	.9637	.9936
.040		.3682	.7866				
.060	.4188		1.0805	.9030	.9365	.9372	
.080			.9864				
.100		.7637					
.120		.9251					
.140	.4860			.7986	.7750	.8027	.8108
.160		.8310					
.180		.6429					
.200	.3843		.8351				
.220				.8643	.7148	.7582	.4095
.240		.8067					
.260	.3748		.5812				
.280				.5969	.7187		.7127
.300		.3742					
.320	.3761			.4874	.6299		
.340		.3703					
.360							.6120
.380	.3802						.3813
.400				.3170	.3250	.3473	
.420							
.440		.3035					
.460							.3958
.480	.3189			.3023			
.500		.2831			.3119		
.520				.2727		.3200	
.540		.2706					
.560							
.580	.2810						





AMPS 5-5-1940 CAS CIO ACS OM LING OVER SURFACE

(REVISED) (28 AUG 74)

REF ID: A67474

[illegible]

# PARAMETRIC DATA

max/min (1)	9.280	ALPHA (1)	17.678	RM/1	3.302	Q	7.323	B	1.409	PI	297.400
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SMITHSONIAN INSTITUTION

SECRETARY GENERAL

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DATE 10 SEP 75 TABULATED PRESSURE DATA - Q483

AMES 5 5-194 Q483 D10 RCS ON WING LOWER SURFACE (REMARKS) ( 20 AUG 74 )

REFERENCE DATA

REF 1 8000.0000 IN PT. ZMRP 1 0000 IN. BETA 2 0000 ELEVON 1 -8.000  
 REF 2 474.0000 IN. ZMRP 2 0000 IN. ATLRON 1 0000 SPOBRN 1 000  
 REF 3 916.0000 IN. ZMRP 3 0000 IN. RUDDER 1 0000 BOFLAP 1 -11.700  
 SCALE 1 0150

PARAMETRIC DATA

WLOC ( 1 ) 1 5 200 ALPHA ( 1 ) 1 25.766 RM/L 1 3.200 Q 1 7.907 P 1 .412 PT 1 101.110

SECTION 1 LOWER WING DEPENDENT VARIABLE CP

27/8 30 .36 .43 .53 .67 .78 .89

27/8

000	- .0032	- .0013	.3033	1.0000	.0000	.7177	.6378
080			.5339	1.0642	.6933	.9662	1.0064
040		.2374	.5912				
090	.5434		.6901	.7462	.6686	.6871	
060			.7489				
081			.6432				
084		.4216					
096	.5834		.6759	.0000	.7585	.7816	
150		.3503					
163			.5701				
177	.4678						
229		.5319					
246							
250			.5941	.6432	.7155	.3737	
274			.5022				
369	.4824						
390		.5007					
400							
402			.5041	.6306		.6732	
467	.4949						
540			.5011	.5050			
581							
670	.4775					.6294	
700							
780	.2385					.2770	
804							
863			.1302	.1200	.1395		
887		.1293					
901	.0604						
910	.1946		.1190			.1772	
914		.1153		.1156			
914		.1018				.1227	
931		.1302					
941	.0978						

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DATE 10 FEB 75

TABLE 1000 PRESSURE DATA (3483)

AMES 3-5-194 TABS 010 015 016 WING LOWER SURFACE

(RECMAS) (20 AUG 74)

PARAMETRIC DATA

BETA = 0.00 ELEVON = -5.000  
 ALLECON = 0.000 SPOON = 0.000  
 SPOON = 0.000 SPOON = 16.300

REFERENCE DATA

REF = 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000  
 REF = 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000  
 REF = 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000  
 REF = 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

MACH = 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00

DEPENDENT VARIABLE CP

SECTION 1 LOWER WING

REF = 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

REF = 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

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DATE 19 FEB 75 TABULATED PRESSURE DATA - 0483

ANES 3.5-124 0483 010 RCS OFF WING LOWER SURFACE (REVASS) ( 20 AUG 74 )

REFERENCE DATA  
REF 1 2690.0000 30. FT. WRP 2 .0000 IN. RETA = .000 ELEVON 2 -5.000  
REF 2 474.0000 IN. WRP 2 .0000 IN. ALLRON 2 .000 SPOBRK 2 .000  
REF 3 918.7000 IN. WRP 2 .0000 IN. RUDDER 2 .000 ELFLAP 2 10.500  
SCALE 1 0150  
MACH 1 0.7 3.260 ALPHA ( 1 ) 2 17.645 RE/L 2 3.500 3 2 7.961 3 2 .411 PT 2 200.580

PARAMETRIC DATA

SECTION 1 FOLLOWER WING DEPENDENT VARIABLE CP

RY/B .30 .36 .43 .53 .67 .78 .89

X/C

.000	-.0037	-.0034	.3717	1.2964	.0677	.7950	.7689
.020			.2882	.8073	.8416	.5975	.6983
.040		.1794	.4037				
.060	.1099			.2808	.3019	.5356	.4912
.080				.4783			
.081			.4330				
.084		.2681					
.094	.2837			.3948	.4176	.4506	.4563
.130		.5295					
.183			.3758				
.177	.3020						
.229		.3018		.3335	.3650	.4282	.2271
.246			.2758				
.250							
.274	.2815						
.302		.2736		.3236	.3322	.4006	
.390							
.400			.2875				
.402				.2237	.2658		
.497	.2600		.2889				
.550						.3634	
.585							.1345
.600							
.700	.2506			.0479	.0524	.0671	
.730		.0541					
.834			.0513				
.890							
.897							
.883	.0238			.0372	.0416	.1062	
.900	.0740		.0463				
.909				.0271		.0575	
.930							
.933			.0347				
.983	.0593						

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AXES 3.54 92 DANT OLD RES OFF WING LOWER SURFACE

IRMA393

28 AUG 74

PARAMETRIC DATA

PETA = .000 ELEVON = -5.000  
AILRON = .000 SPDBRA = .000  
RUDDER = .000 BOFLAP = 10.300

REFERENCE DATA

REFP = 6800.0000 IN. FT. XMRP = .0000 IN.  
LEFP = 474.8000 IN. YMRP = .0000 IN.  
ORFP = 536.7000 IN. ZMRP = .0000 IN.  
SCALE = .0150

MACH (1) = 5.200 ALPHA (1) = 21.307 RN/L = 3.343 Q = 7.932 P = .411 PT = 290.340

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

2778 .30 .35 .43 .53 .67 .78 .89

X/C

.000	-.0060	-.0027	.3369	1.2369	.8422	.7741	.7153
.020			.8300	.9583	.7773	.7709	.8547
.040		.2243	.3714				
.060	.2438			.6978	.6119	.6994	.6752
.080				.8094			
.081			.5248				
.084	.2877	.3431					
.100				.5093	.5241	.5794	.5971
.183		.4212					
.177			.4366				
.229	.3515	.3990					
.248				.4428	.4914	.5588	.2932
.290			.3712				
.382	.3915	.5693					
.390				.4283	.4877		.5165
.400			.5674				
.402	.497	.4508		.3128	.3576		
.497			.3656				.4737
.585							
.600							.2284
.700	.3413						
.750							
.834	.1854						
.850				.0953	.0946	.1067	
.857			.0988				
.865	.0390						.1550
.900	.1192			.0792			
.905		.0815			.0810		
.950			.0873			.0933	
.955		.0720					
.965	.0872						

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TABULATED PRESSURE DATA - 0483

PAGE 10

AMES 3.3-194 0483 Q10 RCS OFF WING LOWER SURFACE

(REMARKS) 1 98 AUG 74

## REFERENCE DATA

REF X 2690.0000 30 FT. ZMRP = .0000 IN.  
 REF X 474.8000 IN. ZMRP = .0000 IN.  
 REF X 936.7000 IN. ZMRP = .0000 IN.  
 SCALE X .0130

## PARAMETRIC DATA

SET. = .000 ELEVOM = -5.000  
 AIRCON = .000 SPDRK = .000  
 RUDDER = .000 SCCLAP = 10.500

MACH = 0.152 ALPHA (1) = 25.759 RM/L = 3.293 Q = 7.956 P = .411 PT = 300.200

## SECTION 1: LOWER WING DEPENDENT VARIABLE CP

X/Y Z .30 .36 .43 .53 .67 78 .89

Z/C

.000	-.0057	-.0028	.3085	1.0915	.7873	.7181	.6255
.020			.6842	1.0713	.9137	.9552	1.0024
.040		.2809	.6612				
.060	.3192		.8272	.7426	.8616	.8860	
.080			.7577				
.081			.8557				
.084		.4344					
.094	.3314			.6614	.6639	.7507	.7664
.150		.5361					
.183			.5848				
.177	.4742						
.228		.5233		.5883	.6395	.7139	.3802
.246							
.250				.5670	.6189		.6640
.274			.4986				
.382	.5046						
.390		.4972					
.400			.5069				
.402							
.497	.4848			.4383	.4938		
.550			.5424				
.585							.6296
.800							
.700	.4686						
.750							
.834	.1722						
.850			.1639	.1544	.1692		
.857		.0000					
.885	.0803						
.900	.1816		.1492				2.127
.908		.1419	.1493				
.930		.1277				.1526	
.935		.1281					
.965	.1544						





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TABULATED PRESSURE DATA - 0403

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AMES 1.3-194 0403 010 RCS ON WING UPPER SURFACE

TRW001

MACH (1) = 10.200 ALPHA (1) = 29.010

SECTION 1 UPPER WING

DEPENDENT VARIABLE CP

X/Y	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

C/C

1.003 1.0210





DATE 19 FEB 75

TABULATED PRESSURE DATA - 0403

PAGE 04

AREA 3.5-194 0403 010 RCS ON WING UPPER SURFACE

(REWBDR)

MACH (1) = 10.890 ALPHA (1) = 53.725

SECTION 1 UPPER WING

DEPENDENT VARIABLE CP

27/0 .30 .36 .43 .53 .67 .78 .89

R/C

.063 .0414





(REMOVED) 25 AUG 74

WING AREA 10.000

DEPENDENT DATA

1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
1000	2000	3000	4000	5000	6000	7000	8000	9000	10000

MACH 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40 2.60 2.80 3.00

SECTION 1 - WING WING

878 30 40 50 60 70 80 90 100

879 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

880 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

881 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

882 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

883 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

884 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

885 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

886 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

887 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

888 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

889 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

890 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

891 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

892 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

893 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

894 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

895 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

896 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

897 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

898 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

899 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

900 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

901 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

AMES 3.5-194 OARS OLD RCS ON WING UPPER SURFACE

(REWB03)

MACH ( 1 ) = 10.800 ALPHA ( 1 ) = 37.771

SECTION ( 1 ) UPPER WING

DEPENDENT VARIABLE CP

R1/R0 .30 .30 .43 .53 .67 .76 .89

R/C

.063 .0633





DATE 10 FEB 75

TABULATED PRESSURE DATA - Q403

PAGE 00

AMES 3.5-194 Q403 010 RCS OFF WING UPPER SURFACE

(REMB04)

MACH ( 1 ) = 10.800 ALPHA ( 1 ) = 20.011

SECTION 1 UPPER WING

DEPENDENT VARIABLE CP

BT/O	.30	.30	.43	.55	.67	.78	.89
------	-----	-----	-----	-----	-----	-----	-----

E/C

.000 .0027





AMES 3.5-196 Q483 010 RCS OFF WING UPPER SURFACE

(RE 205)

MACH 1.11 \* 10.000 ALPHA (1) = 33.722

SECTION 1 UPPER WING

DEPENDENT VARIABLE CP

X/Y 0 .30 .40 .43 .53 .67 .78 .89

E/C

.0000 -0.0004



REFERENCE DATA

4288	3880.0000	99.97.	4488	0.000	BETA	1.000
4289	474.300	IN.	4489	0.000	ELEVON	0.000
4290	938.7000	IN.	4490	0.000	ALCON	0.000
4291	0.0150		4491	0.000	KODER	0.000
4292			4492	0.000	BOFLAP	-11.700

### PARAMETRIC DATA

BETA	=	.000	ELVON	=	1.000
ALFON	=	.000	SFORRK	=	.000
RUDDER	=	.000	BOFLAP	=	-11.700

[illegible]

## DEPENDENT VARIABLE CP

	1960	1961	1962	1963	1964
Per cent of total	30	36	43	53	67
1964	30	36	43	53	67
1965	30	36	43	53	67
1966	30	36	43	53	67
1967	30	36	43	53	67
1968	30	36	43	53	67
1969	30	36	43	53	67
1970	30	36	43	53	67
1971	30	36	43	53	67
1972	30	36	43	53	67
1973	30	36	43	53	67
1974	30	36	43	53	67
1975	30	36	43	53	67
1976	30	36	43	53	67
1977	30	36	43	53	67
1978	30	36	43	53	67
1979	30	36	43	53	67
1980	30	36	43	53	67
1981	30	36	43	53	67
1982	30	36	43	53	67
1983	30	36	43	53	67
1984	30	36	43	53	67
1985	30	36	43	53	67
1986	30	36	43	53	67
1987	30	36	43	53	67
1988	30	36	43	53	67
1989	30	36	43	53	67
1990	30	36	43	53	67
1991	30	36	43	53	67
1992	30	36	43	53	67
1993	30	36	43	53	67
1994	30	36	43	53	67
1995	30	36	43	53	67
1996	30	36	43	53	67
1997	30	36	43	53	67
1998	30	36	43	53	67
1999	30	36	43	53	67
2000	30	36	43	53	67
2001	30	36	43	53	67
2002	30	36	43	53	67
2003	30	36	43	53	67
2004	30	36	43	53	67
2005	30	36	43	53	67
2006	30	36	43	53	67
2007	30	36	43	53	67
2008	30	36	43	53	67
2009	30	36	43	53	67
2010	30	36	43	53	67
2011	30	36	43	53	67
2012	30	36	43	53	67
2013	30	36	43	53	67
2014	30	36	43	53	67
2015	30	36	43	53	67
2016	30	36	43	53	67
2017	30	36	43	53	67
2018	30	36	43	53	67
2019	30	36	43	53	67
2020	30	36	43	53	67
2021	30	36	43	53	67
2022	30	36	43	53	67
2023	30	36	43	53	67
2024	30	36	43	53	67
2025	30	36	43	53	67
2026	30	36	43	53	67
2027	30	36	43	53	67
2028	30	36	43	53	67
2029	30	36	43	53	67
2030	30	36	43	53	67
2031	30	36	43	53	67
2032	30	36	43	53	67
2033	30	36			

2/5

.000	.1550	.1031	.2687	.8918	.5974	.5677	.4128
.020			.0077	.1130	.1231	.0780	.0346
.040		.0050	.0125				
.060	.0100			.0476	.0370	.0430	.0358
.080				.0318			
.101			.0071				
.124		.0036					
.144	.0064			.0121	.0206	.0238	.0157
.160							
.183		.0045	.0054				
.177							
.229	.0095						
.246		.0065		.0336	.5598	.0141	.0377
.210							
.274			.0066				
.382	.0042						
.390	.0066						
.400				.0093	.5361		.0079
.402			.0084				
.457	.0072						
.550				.0074	.0531		.0080
.583			.0079			.0120	
.600							
.630					.0228		.0080
.700	.0087			.0088		.0117	
.723							
.750			.1246		.0148		
.760				.0098			
.775			.6707				
.808							
.834	.0070			.0088	.0117	.0150	
.850							
.857			.0286				
.883	.0089						
.900	.0083			.0076			.0102
.905			.0096	.0076	.0116		
.930						.0128	
.933			.0076				

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TABULATED PRESSURE DATA - 0403

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AMES 3-5-194 0403 010 RCS OFF WING UPPER SURFACE

(REWB08)

MACH (1) = 10.290 ALPHA (1) = 37.750

SECTION 1 UPPER WING

DEPENDENT VARIABLE CP

XY/B	.30	.43	.53	.67	.78	.89
X/C	.0079					

X/C

.0079





AMES 3 5-194 OAB3 015 RCS ON WING UPPER SURFACE

(REUBOT) (20 AUG 74)

## REFERENCE DATA

XREF = 2690.0000 50. FT. XMRP = .0000 IN.  
 LREF = 474.0000 IN. YMRP = .0000 IN.  
 RREF = 936.0000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

## PARAMETRIC DATA

BETA = -2.000 ELEVON = 1.000  
 AILRON = .000 SPOBRK = .000  
 RUDDER = .000 BDFLAP = -11.700

MACH (1) = 10.290 ALPHA (1) = 29.644 RN/L = 1.756 Q = 2.581 P = .032 PT = 1774.020

## SECTION (1) UPPER WING DEPENDENT VARIABLE CP

X/Y/Z .30 .35 .40 .45 .50 .55 .60 .65 .70 .75 .80

X/C

.000	.0720	.0687	.3986	1.3820	.7000	.7196	.5909
.020			.0490	.2130	.1768	.1116	.0963
.040		.0060	.0230				
.060	.0231			.0932	.0886	.0806	.0586
.080			.0634				
.100			.0099				
.120		.0092					
.140	.0090			.0207	.0404	.0253	.0217
.160		.0120					
.180			.0124				
.200	.0109						
.220		.0131		.0126	.1332	.0169	.0186
.240			.0131				
.260	.0123						
.280		.0140		.0127	.1783		.0191
.300			.0141				
.320	.0153			.0130	.0672		
.340		.0132					
.360			.0132				.0157
.380	.0130			.0129	.0350		
.400		.0129				.0303	.0166
.420			.0137				
.440	.0136			.0119	.0187		
.460		.0132					
.480			.0139	.0139	.0140	.0251	
.500	.0120			.0116			.0156
.520		.0092					
.540			.0104	.0139			
.560	.0093			.0090		.0207	
.580			.0407				

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YACULATED PRESSURE DATA - QAB3

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AMES 3.5-194 QAB3 Q15 RCS ON WING UPPER SURFACE

(REWB07)

MACH ( 1 ) = 10.200 ALPHA ( 1 ) = 29.844

SECTION 1 1) UPPER WING

DEPENDENT VARIABLE CP

X/Y	.30	.35	.43	.53	.67	.78	.89
-----	-----	-----	-----	-----	-----	-----	-----

X/C

.963 .0200



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AMES 31-194 DABS 010 RES ON WING UPPER SURFACE (REMB00) ( 23 AUG 74 )

REFERENCE DATA

WREF 2000.0000 50. FT. XMRP = .0000 IN. BETA = -2.000 ELEVON = 1.000  
 YREF 474.8000 IN. YMRP = .0000 IN. ALLRON = .000 SPOBRK = .000  
 WREF 936.0000 IN. ZMRP = .0000 IN. RUDDER = .000 BOFLAP = -11.700  
 SCALE = .0150

PARAMETRIC DATA

MACH ( 1 ) = 10.290 ALPHA ( 1 ) = 33.740 RN/L = 1.831 Q = 2.420 P = .033 PT = 1799.100

SECTION ( 1 ) UPPER WING DEPENDENT VARIABLE CP

ST/8	.30	.35	.43	.53	.67	.78	.89
C/C							
.000	.0532	.0520	.3276	1.0813	.6237	.6212	.4911
.020			.0130	.1340	.1459	.0831	.0666
.040			.0096	.0159			
.060	.0281			.0660	.0697	.0462	.0460
.080				.0443			
.081			.0066				
.084	.0392		.0091				
.094				.0153	.0317	.0236	.0236
.150		.0114					
.177	.0106		.0129				
.229		.0136		.0123	.1377	.0220	.0217
.246							
.250							
.274			.0123				
.302	.0129	.0122		.0130	.2314		.0160
.390				.0125			
.400							
.402				.0125			
.497	.0129			.0156	.0779		
.550			.0129				
.585						.0301	.0169
.600					.0329		
.650	.0139			.0116			
.725							
.750						.0244	.0146
.760			.1797				
.775			.2900	.0123	.0175		
.806							
.834	.0101			.0114	.0141	.0175	
.850							
.897			.0253				
.885	.0101						.0167
.900	.0066			.0126	.0124		
.905			.0123			.0147	
.910				.0096			
.955			.0410				

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TABULATED PRESSURE DATA - 0483

PAGE 74

AMES 3-5-194 0483 015 RCS ON WING UPPER SURFACE

(REWB08)

MACH (1) 0 10.200 ALPHA (1) 0 33.740

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

87/80 .30 .43 .53 .67 .78 .89

R/C

.003 .0585



[illegible]

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

0472

DATE	DESCRIPTION	AMOUNT	BALANCE
1960-1-1	INITIAL DEPOSIT	100.00	100.00
1960-1-15	PAYROLL	25.00	75.00
1960-1-30	RENT	15.00	60.00
1960-2-15	SALES	30.00	90.00
1960-2-28	UTILITIES	10.00	80.00
1960-3-15	PAYROLL	25.00	55.00
1960-3-31	CLOSING BALANCE		55.00

100.0000

SECRET

[illegible][illegible]

22

000	0026	0001	0057	5953	5657	4314
020		0308	1160	1225	0847	0627
040		0153				
060	0272		0319	0574	0334	0000
080			0357			
081		0119				
084	0149					
094	0147		0131	0293	0372	0412
150		0103				
165		0155				
177						
220	0141					
246		0161	0152	1093	0420	0413
250						
274		0166				
302	0174			2548		0362
390						
400	0000	0166				
422						
497	0176		0103	0769	0694	0332
510		0102				
563						
600						
630				0446		
700	0100		0132		0362	0322
723						
750		0276				
760			0140	0208		
779		0308				
808						
814	0146					
810			0133	0268	0339	
817		0202				
863	0130					0309
920	0103		0126	0258		
939		0103			0263	
951			0136			
993		0476				

DATE 10-20-75

TABULATED PRESSURE DATA - Q483

AMES 3 5-194 Q483 010 RCS ON WING UPPER SURFACE

(REMB09)

PAGE 76

MACH (1) = 10.800 ALPHA (1) = 37.031

SECTION / UPPER WING DEPENDENT VARIABLE CP

87/8 .30 .30 .43 .53 .67 .76 .89

X/C

963 .0670





DATE 19 FEB 75

TABULATED PRESSURE DATA - 0403

PAGE 00

AMES 3.5-194 0403 010 RCS OFF WING UPPER SURFACE

0PCW0101

MACH 0.115 10.700 ALPHA 11.2 29 031

SECTION 1 UPPER WING

DEPENDENT VARIABLE CP

POS	30	35	40	45	50	55	60	65	70	75	80
CP											

END

0 1 0 2 3





SECTION 1 - WING SURFACE

REF. 1 - 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000

PARAMETRIC DATA

REF. 1 - 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000  
 REF. 2 - 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000  
 REF. 3 - 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000  
 REF. 4 - 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000  
 REF. 5 - 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000  
 REF. 6 - 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000  
 REF. 7 - 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000  
 REF. 8 - 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000  
 REF. 9 - 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000  
 REF. 10 - 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000

REF. 1 - 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000

SECTION 1 - WING SURFACE

REF. 1 - 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000

REF. 1

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OF POOR QUALITY

AMES 3.5-194 0403 010 RCS OFF WING UPPER SURFACE

(REMB11)

MACH 1.11 \* 10.000 ALPHA (11) = 33.702

SECTION 1 UPPER WING

DEPENDENT VARIABLE CM

01/0	.30	.40	.50	.67	.70	.89
C <sub>pe</sub>						

C<sub>pe</sub>

.000 .0030





DATE 10 FEB 79

TABLED PRESSURE DATA - 0403

PAGE 04

AMES 3-5-194 0403 DIG RCS OFF WING UPPER SURFACE

(REMB12)

WING 1 11 1 10.870 ALPHA (1) = 37.804

SECTION 1 SHIPPED WING

DEPENDENT VARIABLE CP

RY/R .30 .36 .43 .53 .67 .78 .89

R/C

.003 .0060



ABLATED PRESSURE DATA - 0A83

DATE 14 FEB 75

(RUMB13) ( 28 AUG 74 )

WMS 3.3-124 0A83 OLD RCS ON WING UPPER SURFACE

PARAMETRIC DATA

BETA = 2.000 ELEVON = 1.000  
AILRON = .000 SPOBRK = .000  
RUDDER = .000 BOFLAP = -11.700

REFERENCE DATA

WREP 1 2000.0000 50.00 XREP = .0000 IN.  
WREP 2 474.8000 IN. YREP = .0000 IN.  
WREP 3 938.7000 IN. ZREP = .0000 IN.  
SCALE 1 .0100

MACH 1.1 = 10.290 ALPHA 1.1 = 25.730 RN/L = 1.878 Q = 2.423 P = .033 PT = 18000.600

DEPENDENT VARIABLE CP

SECTION 1 UPPER WING

XY/Z	.30	.36	.43	.53	.67	.70	.69
X/C							
.000	.0180	.0187	.0206	1.2159	.6421	.6416	.5093
.020			.0074	.1536	.1475	.0892	.0691
.040			-.0102	-.0091			
.050	-.0020			.0527	.0527	.0433	.0364
.060				.0260			
.081			-.0174				
.084			.0299				
.094	-.0145			-.0075	.0263	.0180	.0105
.110		-.0104					
.163			-.0141				
.177							
.229	-.0153						
.246		-.0132		-.0161	.3203	.0114	.0126
.250			-.0129				
.274							
.362	-.0130						
.390		-.0120		-.0134	.4515		.0092
.400							
.402			-.0154				
.497	-.0127			-.0116	.0472		
.550			-.0130				
.585							
.600						.0140	.0040
.630							
.700	-.0130			-.0130	.0162		
.725						.0130	.0163
.750			.0074				
.760				-.0130	.0044		
.775			.4806				
.800							
.834	-.0129			-.0119	-.0001	.0083	
.850			.0019				
.857							
.885	.0034						.0086
.900	-.0153			-.0157	-.0003		
.905			-.0093				
.910				-.0101	.0022		
.951			.0246				

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DATE 10 FEB 75

TABULATED PRESSURE DATA - OAB3

PAGE 04

AMES 3.3-194 OAB3 OLD RCS ON WING UPPER SURFACE

(REWB13)

MACH (1) = 10.890 ALPHA (1) = 29.735

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

X/Y/Z	.30	.36	.43	.53	.67	.78	.89
X/C	.985	-.0000					



AMES 3.5-194 0403 010 RCS ON WING UPPER SURFACE

ITEM 147 ( 8 AUG 74 )

## REFERENCE DATA

REF 1	2000.0000 IN.	REF 2	0.0000 IN.	REF 3	2.0000	ELEVATION	1.0000
REF 4	474.0000 IN.	REF 5	0.0000 IN.	REF 6	0.0000	SPREAD	1.0000
REF 7	936.0000 IN.	REF 8	0.0000 IN.	REF 9	0.0000	ROUNDER	-11.7000
SCALE	0.0100						

## PARAMETRIC DATA

MACH	1.1	10.290	ALPHA	13.5	33.559	RM/L	1.930	W	2.439	R	0.033	PT	1003.270
------	-----	--------	-------	------	--------	------	-------	---	-------	---	-------	----	----------

## SECTION 1 UPPER WING DEPENDENT VARIABLE CP

Y/Z	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

X/C

.000	.0174	.0166	.0291	.0875	.5784	.5637	.4254				
.020			.0040	.1103	.1212	.0710	.0429				
.040		.0130	.0088								
.060	.0030			.0344	.0486	.0372	.0233				
.080				.0140							
.100			.0156								
.120	.0103	.0233									
.140	.0090			.0071	.0207	.0086	.0126				
.160			.0101								
.180	.0115	.0094									
.200				.0142	.1436	.0123	.0123				
.220	.0097	.0106		.0110	.2930		.0064				
.240			.0123								
.260	.0103		.0088	.0073	.0572						
.280						.0063	.0031				
.300	.0108			.0117	.0176						
.320			.0003			.0166	.0226				
.340			.4535								
.360	.0090			.0106	.0019	.0030					
.380			.0101								
.400	.0097			.0121			.0087				
.420	.0131		.0023	.0045							
.440			.0091	.0019							
.460			.0302								

DATE 19 FEB 79

TABULATED PRESSURE DATA - 0483

PAGE 08

AMES 3.5-194 0483 010 RCS ON WING UPPER SURFACE

(REMB14)

MACH ( 1 ) = 10.890 ALPHA ( 1 ) = 33.609

SECTION : UPPER WING DEPENDENT VARIABLE CP

STATION	CP	STATION	CP	STATION	CP
87/0	.30	.43	.53	.67	.70
					.59

X/C

.000 .0240





AMES 315-194 0483 O10 RCS ON WING UPPER SURFACE

(REWB15) 1 28 AUG 74 1

## REFERENCE DATA

REF = 2000.0000 50. FT. XMRP = 10000 IN.  
 UREF = 475.0000 IN. YMRP = 10000 IN.  
 GREF = 836.7000 IN. ZMRP = 10000 IN.  
 SCALE = .0130

## PARAMETRIC DATA

BETA = 2.000 ELEVON = 1.000  
 AILRON = .000 SPOBRK = .000  
 RUDDER = .000 EOPLAP = -13.700

MACH = 1.11 \* 10.250 ALPHA (1) = 17.771 RN/L = 1.931 Q = 2.436 P = .033 PT = 1008.240

## SECTION 1 UPPER WING

## DEPENDENT VARIABLE CP

27/5 .30 .38 43 .53 .67 .76 .89

X/C

.000	.0255	.0238	.2140	.7921	.5946	.5024	.3603
.020			-.0009	.0781	.1063	.0535	.0285
.040			-.0095	-.0117			
.060	.0023			.0225	.0357	.0223	.0108
.080				.0045			
.100			-.0123				
.120			.0414				
.140	-.0096			-.0109	.0128	.0142	.0293
.160			-.0067				
.180			-.0089				
.200	-.0096						
.220			-.0087				
.240				-.0120	.0741	.0180	.0215
.260			-.0090				
.280							
.300	-.0080		-.0088				
.320				-.0095	.0477		.0144
.340			-.0104				
.360	-.0084			-.0054	.0502		
.380			-.0079				
.400							
.420							
.440							
.460							
.480							
.500							
.520							
.540							
.560							
.580							
.600							
.620							
.640							
.660							
.680							
.700							
.720							
.740							
.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
.995							

DATE 19 FEB 75

TABULATED PRESSURE DATA - Q483

PAGE 30

ANES 3-3-194 Q483 010 RCS DN WING UPPER SURFACE

(REMB13)

MACH 1.124 10.290 ALPHA (1) = 37.773

SECTION 1 UPPER WING

DEPENDENT VARIABLE CP

STATION	CP	STATION	CP	STATION	CP
1	.30	13	.43	25	.67
2	.38	14	.53	26	.78
3	.45	15	.67	27	.89

R/C

Q43 1.34



WING 3.5-194 0483 010 REC OFF WING UPPER SURFACE

(REMB18) (28 AUG 74)

## REFERENCE DATA

REF 1 0000.0000 30 FT. WMRP = 0000 IN.  
 REF 2 074.0000 IN. WMRP = 0000 IN.  
 REF 3 918.7000 IN. WMRP = 0000 IN.  
 SCALE 1 .0150

## PARAMETRIC DATA

BETA = 2.000 ELEVON = 1.000  
 AILRON = 0.000 SPDRK = 0.000  
 RUDDER = 0.000 DEFLEP = -11.700

WING 1 1.0 10 280 ALPHA 1.0 29 750 RNL = 1.041 Q = 2.424 P = .033 PT = 1801.103

## SECTION 1 UPPER WING

## DEPENDENT VARIABLE CP

REF 1 30 .56 .43 .33 .27 .20 .09

R/C

000	.0173	.0204	.0284	.0260	.0435	.0493	.0210
005		.0089	.0089	.0174	.0466	.0895	.0680
040		-.0222	-.0097				
050	.0136		.0314	.0329	.0391	.0346	
060			.0275				
085			-.0176				
094		.0042					
094	.0202			-.0084	.0234	.0139	.0044
130			-.0192				
183			-.0234				
197							
229	-.0215						
246		-.0222					
250				-.0211	.0840	.0055	-.0065
274							
342	-.0221						
350		-.0201					
400				-.0212	.0048		-.0096
402			-.0205				
437	-.0202			-.0210	.0363		
510			-.0214				
545							
600							
610							
700	-.0208				.0370	-.0053	-.0108
725				-.0156			
750							
760			.0434			.0004	.0401
775				-.0210	-.0040		
808		1.0096					
834	-.0208						
850				-.0204	-.0086	-.0078	
857		.0027					
865	-.0194						
900	-.0213			-.0203	-.0082		.0008
905			-.0193				
930			-.0211			-.0084	
935			-.0190				

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(REUB18)

DATE 15 FEB 75 TABULATED PRESSURE DATA - 0483

AMES 3.3-194 0483 010 RCS OFF WING UPPER SURFACE

NAME 1010 101000 ALPHA 11.2 25 720

SECTION 10 UPPER WING

DEPENDENT VARIABLE CP

STATION	CP	STATION	CP	STATION	CP
2478	.30	36	.43	53	.67
				76	.89

END

983 - 0203



DATE 10 PER 75 INSULATED PRESSURE DATA - 0403

AMES 3.5-194 0403 010 RCS OFF WING UPPER SURFACE

(REWB17) 1 28 AUG 74 1

PARAMETRIC DATA

BETA = 2.000 ELEVON = 1.000  
 AILRON = .000 SPOBRK = .000  
 RUDDER = .000 BOFLAP = -11.700

REFERENCE DATA

WING 1 2000 0000 10.71 4MPP = 10000 IN.  
 WING 2 474.0000 1M 10000 IN.  
 WING 3 910.0000 1M 10000 IN.  
 SCALE = .0150

MACH 1.117 10.285 ALPHA 1.112 33.737 RMYL = 1.017 Q = 2.421 P = .033 AT = 1800.970

DEPENDENT VARIABLE CP

SECTION 1 UPPER WING

2700 30 43 54 67 78 89

W/C

.000	-.0203	-.0199	-.2532	.9924	-.5637	-.5838	-.4402
.020			-.0021	-.1101	-.1191	-.0659	-.0396
.040		-.0219	-.0110				
.060	-.0037			-.0329	-.0425	-.0263	-.0141
.080				-.0123			
.091		-.0203					
.084		-.0094					
.094	-.0189			-.0103	-.0123	-.0003	-.0110
.102		-.0193					
.179			-.0219				
.220	-.0212	-.0200					
.240				-.0214	-.0700	-.0103	-.0180
.250		-.0204					
.274							
.302	-.0200	-.0100					
.360				-.0204	-.1211		-.0234
.400							
.402	-.0202						
.497		-.0203		-.0100	-.0212		
.590		-.0189					
.593							
.600							
.630	-.0203				-.0029		-.0222
.723				-.0193			
.750							
.767							
.774				-.0187	-.0141		
.790							
.814	-.0134						
.910				-.0100	-.0184	-.0176	
.917							
.917		-.0093					
.981	-.0184						
.990	-.0180			-.0196			-.0100
.993		-.0172			-.0203		
.910				-.0183			-.0206
.913		-.0192					

(REMBIT)

DATE 10 FEB 85 TABULATED PRESSURE DATA - GABS  
 AMES 3.5-1194 DAB3 010 RCS OFF WING UPPER SURFACE

MACH (1) = 10.800 ALPHA (1) = 33.737  
 SECTION 1 UPPER WING DEPENDENT VARIABLE CP  
 X/Y/Z .30 .36 .43 .53 .67 .78 .89  
 R/C  
 001 -00197





DATE 10 FEB 75

TABULATED PRESSURE DATA - 0403

PAGE 94

AMES 3.5-194 0403 010 RCS OFF WING UPPER SURFACE

(REMB10)

MACH 0.15 0.15.200 ALPHA 1.51 0.37.960

SECTION 1 UPPER WING

DEPENDENT VARIABLE CP

2770 .30 .36 .43 .53 .67 .76 .89

W/C

.003 .0102





WING UPPER SURFACE

[illegible]

ITEM	QTY	UNIT	PRICE	TOTAL	REMARKS
1.000	1.000	EA	4.000	4.000	1.000
2.000	1.000	EA	4.000	4.000	2.000
3.000	1.000	EA	4.000	4.000	3.000
4.000	1.000	EA	4.000	4.000	4.000
5.000	1.000	EA	4.000	4.000	5.000
6.000	1.000	EA	4.000	4.000	6.000
7.000	1.000	EA	4.000	4.000	7.000
8.000	1.000	EA	4.000	4.000	8.000
9.000	1.000	EA	4.000	4.000	9.000
10.000	1.000	EA	4.000	4.000	10.000
11.000	1.000	EA	4.000	4.000	11.000
12.000	1.000	EA	4.000	4.000	12.000
13.000	1.000	EA	4.000	4.000	13.000
14.000	1.000	EA	4.000	4.000	14.000
15.000	1.000	EA	4.000	4.000	15.000
16.000	1.000	EA	4.000	4.000	16.000
17.000	1.000	EA	4.000	4.000	17.000
18.000	1.000	EA	4.000	4.000	18.000
19.000	1.000	EA	4.000	4.000	19.000
20.000	1.000	EA	4.000	4.000	20.000
21.000	1.000	EA	4.000	4.000	21.000
22.000	1.000	EA	4.000	4.000	22.000
23.000	1.000	EA	4.000	4.000	23.000
24.000	1.000	EA	4.000	4.000	24.000
25.000	1.000	EA	4.000	4.000	25.000
26.000	1.000	EA	4.000	4.000	26.000
27.000	1.000	EA	4.000	4.000	27.000
28.000	1.000	EA	4.000	4.000	28.000
29.000	1.000	EA	4.000	4.000	29.000
30.000	1.000	EA	4.000	4.000	30.000
31.000	1.000	EA	4.000	4.000	31.000
32.000	1.000	EA	4.000	4.000	32.000
33.000	1.000	EA	4.000	4.000	33.000
34.000	1.000	EA	4.000	4.000	34.000
35.000	1.000	EA	4.000	4.000	35.000
36.000	1.000	EA	4.000	4.000	36.000
37.000	1.000	EA	4.000	4.000	37.000
38.000	1.000	EA	4.000	4.000	38.000
39.000	1.000	EA	4.000	4.000	39.000
40.000	1.000	EA	4.000	4.000	40.000
41.000	1.000	EA	4.000	4.000	41.000
42.000	1.000	EA	4.000	4.000	42.000
43.000	1.000	EA	4.000	4.000	43.000
44.000	1.000	EA	4.000	4.000	44.000
45.000	1.000	EA	4.000	4.000	45.000
46.000	1.000	EA	4.000	4.000	46.000
47.000	1.000	EA	4.000	4.000	47.000
48.000	1.000	EA	4.000	4.000	48.000
49.000	1.000	EA	4.000	4.000	49.000
50.000	1.000	EA	4.000	4.000	50.000
51.000	1.000	EA	4.000	4.000	51.000
52.000	1.000	EA	4.000	4.000	52.000
53.000	1.000	EA	4.000	4.000	53.000
54.000	1.000	EA	4.000	4.000	54.000
55.000	1.000	EA	4.000	4.000	55.000
56.000	1.000	EA	4.000	4.000	56.000
57.000	1.000	EA	4.000	4.000	57.000

[illegible]

PERCENT VARIABLE CO  
9414 2447 (110034) 38

8778	.39	.36	.43	.3	.67	.78	.69
889	.0485	.0472	.3578	1 .3123	.6864	.6906	.3803
890			.5345	.1932	.1793	.1533	.0871
893		.0000	.0136				
895	.0161			.0829	.0786	.0311	.0466
899			.0502				
901			.0019				
904	.0036						
906	.0044						
910		.0047		.0163	.0234	.0231	.0198
913							
917			.0036				
919	.0044						
920		.0064			.0364	.0177	.0204
924			.0034	.0136			
927	.0077						
930		.0083		.0046	.0334		.0172
932							
937	.0082						
939				.0079	.0603		
948			.0061			.0283	.0144
953							
959					.0234		
960	.0060			.0049			
968						.0224	.0123
970			.2642				
986				.0033	.0109		
988	.0032		.2373				
994							
999			.0189	.0033	.0069	.0137	
999	.0026						
999	.0029						
999			.0078	.0024	.0269		.0142
999				.0064		.0093	
999			.0063				

DATE 15 FEB 75

TABULATED PRESSURE DATA - DABS

AMES 31-5-194 DABS 010 RCS DN WING UPPER SURFACE

(REMB19)

WING 1 1 13 000 ALPHA 10 29 P10

REFLECTOR AFTER WING

DEPENDENT VARIABLE CP

0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

0.00

0.00 0.00



DATE 10 FEB 75 TABULATED PRESSURE DATA - 0483

ANES 3.5-194 0483 010 RCS ON WING UPPER SURFACE (REMOVED) ( 20 AUG 74 )

REFERENCE DATA  
 SREF = 2094.0000 IN. XMRP = .0000 IN.  
 LREF = 474.8000 IN. YMRP = .0000 IN.  
 RREF = 438.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0190

PARAMETRIC DATA  
 BETA = .000 ELEVON = 4.000  
 AILRON = .000 SPDRK = .000  
 RUDDER = .000 BOFLAP = 10.100

MACH ( 1 ) = 10.290 ALPHA ( 1 ) = 33.685 RW/L = 1.463 Q = 2.364 P = .032 PT = 1003.030

DEPENDENT VARIABLE CP

SECTION ( 1 ) UPPER WING

XY/Z	.30	.36	.43	.53	.67	.76	.89
X/C							
.000	.0481	.0467	.3123	1.0587	.6349	.6232	.4853
.020			.0329	.1516	.1454	.1007	.0811
.040		.0105	.0155				
.060	.0241		.1106	.0708	.0620	.0553	
.080			.0429				
.100		.0109	.0070				
.120	.0105			.0241	.0229	.0179	.0393
.140		.0126					
.160	.0116		.0127				
.180		.0132		.0103	.0197	.0392	.0388
.200			.0118				
.220	.0134						
.240		.0122		.0121	.0224		.0332
.260			.0119				
.280	.0127			.0130	.0796		
.300		.0127					
.320					.0391		.0303
.340	.0129			.0115		.0400	.0281
.360			.0098				
.380			.0250	.0127	.0271		
.400		.0114					
.420				.0120	.0250	.0290	
.440	.0090		.0103				
.460		.0090		.0100			.0300
.480	.0088						
.500			.0149		.0234		
.520				.0138		.0255	
.540			.0489				

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DATE 15 FEB 75

TABULATED PRESSURE DATA - 0493

PAGE 100

AMES 1.5-194 0493 D10 RCS ON WING UPPER SURFACE

CREMBRO

MACH 1.133 10.290 ALPHA (1) = 33.665

SECTION 11 UPPER WING

DEPENDENT VARIABLE CP

RY/B .50 .56 .43 .55 67 76 .89

R/C

.985 2389



DATE 10 FEB 75 TABULATED PRESSURE DATA - 0483

AMES 3-5-194 0483 Q10 RCS ON WING UPPER SURFACE (REWB21) ( 28 AUG 74 )

PAPAMETRIC DATA

BETA = .000 ELEVON = 4.000  
AILRON = .000 SPDRK = .000  
RUDDER = .000 BDFLAP = 10.300

REFERENCE DATA

REF = 2000.0000 50. FT. ZMRP = .0000 IN.  
REF = 474.0000 IN. ZMRP = .0000 IN.  
REF = 936.0000 IN. ZMRP = .0000 IN.  
SCALE = .0150

MACH ( 1 ) = 10.890 ALPHA ( 1 ) = 37.782 RN/L = 1.067 Q = 2.426 P = .033 PT = 1799.110

DEPENDENT VARIABLE CP

SECTION ( 1 ) UPPER WING

ST/8 .30 .36 .43 .53 .67 .78 .89

X/C

.000	.1304	.1273	.2668	.8372	.5963	.5360	.4030
.020			.0263	.1103	.1265	.0744	.0498
.040		.0164	.0130				
.060	.0240			.0494	.0580	.0439	.0342
.080				.0327			
.100			.0125				
.120		.0167					
.140	.0149			.0121	.0230	.0337	.0371
.160		.0162					
.180			.0142				
.200	.0137						
.220		.0133		.0132	.2237	.0367	.0366
.240			.0145				
.260	.0139						
.280		.0164		.0150	.2906		.0310
.300			.0151				
.320	.0167			.0162	.0752		
.340			.0152				.0264
.360		.0155			.0320		
.380				.0153		.0202	.0231
.400			.1632				
.420				.0146	.0184		
.440		.0138					
.460			.0136				
.480				.0130	.0180	.0179	
.500			.0298				
.520	.0161						.0203
.540		.0134		.0117	.0158		
.560			.0197			.0162	
.580				.0190			
.600			.0586				

DATE 19 FEB 75 TABULATED PRESSURE DATA - QAB3

(REMBE1)

AMES 3.5-194 QAB3 DID RCS ON WING UPPER SURFACE

MACH ( 1 ) =	10.200	ALPHA ( 1 ) =	37.782				
SECTION / UPPER WING		DEPENDENT VARIABLE CP					
ST/0	.30	.38	.43	.53	.67	.76	.89
X/C							
	.963	.0624					



AMES 3-3-194 0403 010 RCS OFF WING UPPER SURFACE

(REWB22) ( 78 AUG 74 )

## REFERENCE DATA

REF 1 2890.0000 16. FT. XMRP = .0000 IN. BETA = .000 ELEVON = 4.000  
 REF 2 474.0000 14. YMRP = .0000 IN. ALLRON = .000 SPOBRK = .000  
 REF 3 936.7500 14. ZMRP = .0000 IN. RUDDER = .000 DOFLAP = 16.300  
 SCALE 1 .0110

## PARAMETRIC DATA

MACH ( 1 ) = 10.800 ALPHA ( 1 ) = 29.730 RW/L = 1.839 Q = 2.423 P = .033 PT = 1799.910

## SECTION ( 1 ) UPPER WING

## DEPENDENT VARIABLE CP

RY/R	.30	.36	.43	.53	.67	.73	.89
R/C							
.000	.0306	.0314	.3659	1.3372	.6839	.6914	.5664
.020			.0352	.1936	.1690	.1049	.0886
.040		.0011	.0114				
.060	.0106			.0196	.0764	.0487	.0458
.080				.0312			
.100			.0026				
.120		.0022					
.140	.0003			.0132	.0230	.0236	.0161
.160		.0003					
.177			.0007				
.189	.0021						
.206		.0012					
.230				.0008	.0353	.0138	.0344
.274			.0010				
.382	.0001						
.390		.0016					
.400				.0021	.0396		.0025
.402			.0023				
.407	.0023			.0019	.0437		
.430			.0012				
.465							.0032
.490							
.490	.0022				.0162		
.500				.0023		.0063	.0033
.520							
.530			.1191				
.560				.0022	.0064		
.575		.1426					
.604							
.634	.0009			.0001	.0044	.0046	
.650							
.657		.0114					
.661	.0014						
.670	.0008			.0008			.0030
.694			.0004		.0045		
.696				.0000			
.699						.0050	
.699			.0003				

DATE 19 FEB 75 TABULATED PRESSURE DATA - 0483

(REWER)

ANES 3.5-194 0483 010 RCS OFF WING UPPER SURFACE

MACH	1.11	10.280	ALPHA	1.11	23.730	
SECTION	1	UPPER WING				DEPENDENT VARIABLE CP
RY/R	.30	.30	.43	.53	.67	.70
RY/C						
	.963	.9068				





DATE 18 FEB 74 TABULATED PRESSURE DATA - 0403

AMES 3.5-194 0403 010 RCS OFF WING UPPER SURFACE (REMOVED) ( 20 AUG 74 )

PARAMETRIC DATA

BETA = .000 ELEVON = 4.000  
 AILRON = .000 SPOBRK = .000  
 RUDDER = .000 BDFLAP = 16.500

REFERENCE DATA

SRFP = 2800.0000 50 FT. XMRP = .0000 IN.  
 LSRP = 174.0000 IN. YMRP = .0000 IN.  
 ORFP = 938.0000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

MACH 1.117 13.295 ALPHA (1) = 33.861 RM/L = 1.432 0 = 2.357 P = .032 PT = 1604.000

SECTION 1 (UPPER WING) DEPENDENT VARIABLE CP

27/0 .30 .56 .43 .93 .87 .76 .89

R/C

.000	.0491	.0494	.3176	1.0770	.6363	.6295	.4970
.020			.0331	.0000	.1450	.1000	.0635
.040		.0043	.0149				
.060	.0172		.1125	.0609	.0506	.0536	
.080			.0440				
.100		.0061					
.120		.0014					
.140	.0059			.0231	.0219	.0369	.0297
.160		.0026					
.180		.0021					
.200	.0044						
.220		.0043					
.240				.0032	.0006	.0275	.0190
.260		.0033					
.280	.0045			.0046	.0045		.0140
.300		.0041					
.320	.0045						
.340				.0047	.0677		
.360	.0037						
.380							
.400							
.420							
.440							
.460							
.480							
.500							
.520							
.540							
.560							
.580							
.600							
.620							
.640							
.660							
.680							
.700							
.720							
.740							
.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
.990							

ORIGINAL PAGE 15  
 OF FOUR QUALITY

AMES 315-194 0483 310 RCS OFF WING JOPER 3 GFL E

(4-523)

MACH 10 2 10 200 ALPHA (11) 35.001

SECTION 10 0000 WING DEPENDENT VARIABLE CP

PRD 10 10 43 .33 .67 .70 .89

1/2 985 6041



DATE 10 FEB 73 TABULATED PRESSURE DATA - 0483

ANES 3.5-194 0483 010 RCS OFF WING UPPER SURFACE (REMARKS) ( 28 AUG 74 )

REFERENCE DATA  
 3REP = 2000.0000 36. FT. 3MRP = .0000 IN.  
 4REP = 174.8000 IN. 7MRP = .0000 IN.  
 8REP = 936.7000 IN. 2MRP = .0000 IN.  
 SCALE = 0133

PARAMETRIC DATA  
 BETA = .000 ELEVOM = 4.000  
 ALLROM = .000 SPDBRK = .000  
 RUDDER = .000 DOFLAP = 18.300

MACH ( 1 ) = 10.290 ALPHA ( 1 ) = 37.777 RN/L = 1.346 Q = 2.423 P = .033 PT = 1799.238

SECTION 1 UPPER WING DEPENDENT VARIABLE CP

W/B	35	36	43	53	67	70	89
1.000	.1400	.1442	.2785	.0826	.3955	.5524	.4120
.980			.0763	.1128	.1248	.0773	.0539
.960		.0074	.0133				
.940	.0224			.0496	.0586	.0433	.0347
.920				.0321			
.900			.0260				
.880		.0126					
.860	.0129			.0124	.0221	.0222	.0130
.840		.0064					
.820	.0122		.0080				
.800		.0089					
.780			.0113	.0109	.0041	.0141	.0079
.760	.0082						
.740		.0124		.0093	.4066		.0080
.720			.0106				
.700	.0131			.0106	.0320		
.680		.0104					.0386
.660					.0129		
.640	.0360			.0243			
.620				.0104			
.600			.0097		.0117	.0096	
.580			.0016	.0107	.0149		
.560	.0111			.0100	.0133	.0124	
.540			.0262				
.520				.0092			.0034
.500	.0091		.0110		.0129		
.480	.0086			.0119		.0111	
.460			.0106				

DATE 15 FEB 73

TABULATED PRESSURE DATA - 3483

PAGE 10

AMES 3-5-194 3483 310 RCS 3VF WING UPPER 1 FILE

(REMBL4)

WICH 1 1 1 1 10 250 ALPHA 1 1 1 37.777

SECTION	UPPER WING	DEPENDENT VARIABLE CP
17/8	10 .30 .43 .53 .67 .74 .80	

R/C

983 0000



DATE 10 FEB 75 TABULATED PRESSURE DATA - 0403

AMES 3.5-194 0403 010 RCS ON WING UPPER SURFACE (REMB23) ( 28 AUG 74 )

REFERENCE DATA

REF 1 8998.0000 30.00 IN. TMRP 1 .0000 IN. BETA 1 -2.000 ELEVOM 1 4.000  
 REF 2 474.0000 IN. TMRP 2 .0000 IN. AILROM 1 .000 3008RA 1 .000  
 REF 3 938.7000 IN. TMRP 3 .0000 IN. RUDDER 1 .000 80FLAP 1 10.300  
 SCALE 1 .0150

PARAMETRIC DATA

WING ( 1 ) 1 10.200 ALPHA ( 1 ) 1 20.753 RM/L 1 1.902 0 1 2.412 P 1 .033 PT 1 1777.640

SECTION ( 1 ) UPPER WING DEPENDENT VARIABLE CP

8778 .30 .30 .43 .53 .67 .70 .89

X/C

.000	.0587	.0570	.4263	1.5021	.7522	.7472	.0103
.020			.0555	.8293	.1016	.1174	.1020
.040			.0069	.0263			
.060	.0259			.1029	.0903	.0594	.0599
.080				.0675			
.081			.0129				
.084			.0129				
.094	.0126						
.150				.0240	.0502	.0259	.0239
.183		.0140					
.177			.0179				
.229	.0130						
.246		.0181		.0158	.2115	.0194	.0203
.257			.0176				
.274							
.302	.0174						
.390		.0170		.0174	.2796		.0206
.400							
.402			.0179				
.497	.0177			.0182	.0631		.0197
.590			.0182				
.602							
.690					.0219		
.700	.0184				.0337		
.725				.0163			
.750					.0291	.0183	
.760			.2394				
.775			.3662	.0169	.0334		
.800							
.814	.0187			.0167	.0201	.0270	
.836			.0286				
.897							
.889	.0140			.0140			.0186
.900	.0183		.0149	.0162			
.904				.0130	.0226		
.950							
.993			.0481				

(REWBDS)

DATE 10/11/79 TABULATED PRESSURE DATA - DAB3  
AMES 3.5-194 DAB3 D10 RCS ON WING UPPER 3 PANEL

WING 110 1 10 800 ALPHA (1) = 29.75A

SECTION	WING WING	DEPENDENT VARIABLE CP
27 8	30	33 87 78 89

1/C  
989 0199



DATE 15 FEB 75 TABULATED PRESSURE DATA - DARS

AMES 3-3-194 DARS D10 RCS ON WING UPPER SURFACE

(NEWB20) ( 20 AUG 74 )

REFERENCE DATA  
REF = 0000.0000 SQ. FT. XMAP = 0000 IN.  
REF = 074.0000 IN. YMAP = 0000 IN.  
REF = 916.0000 IN. ZMAP = 0000 IN.  
SCALE = .0100

PARAMETRIC DATA  
BETA = -2.000 ELEVON = 4.000  
AILRON = .000 SPOBRK = .000  
RUDDER = .000 BOFLAP = 10.000

MACH ( 1 ) = 10.290 ALPHA ( 1 ) = 33.824 BN/L = 1.900 0 = 2.431 P = .033 PT = 1799.010

SECTION 1 ( UPPER WING ) DEPENDENT VARIABLE CP

PT/8	35	36	43	53	67	78	88
000	0742	0714	3631	1.1902	6631	6608	5207
020		0401	1653	1456	0936	0788	
040		0007	0194				
060	0240		0719	0706	0501	0501	
080			0480				
081			0000				
084		0110					
094	0113		0174	0397	0271	0271	
100		0127					
143			0148				
177	0113						
200		0131		0126	0220	0270	0270
240			0149				
274	0107			0144	0243		0243
302		0131					
390			0143	0137	0074		
400	0103						
402			0116				0223
407							
510				0126	0349		
580			0243	0136	0200	0331	0211
600			3730				
610	0109						
650				0131	0219	0232	
670		0200					
680	0110						0227
690	0100		0134	0112	0104	0210	
910			0134				
915			0406				

1924-25

DATE 10 FEB 85  
LABORATED PRESSURE DATA - 7403  
AMES 3 8-194 2403 DID NOT CHANGING UPPER 5.5 PAGE

65-15348-19A

111 1989 4.44 11 33.024

4, 444, 11 : 33.024

REPORT - JACO WING  
PERCENT AVAILABLE 22

Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099
1900	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099

22

309 308





DATE 16 SEP 78 TABULATED PRESSURE DATA - 0483

AMES 3.3-194 0483 010 RCS ON WING UPPER SURFACE (REWBET) ( 28 AUG 74 )

REFERENCE DATA

SREF = 2000.0000 30. FT. KMRP = .0000 IN.  
 LREF = 474.0000 IN. YMRP = .0000 IN.  
 SREF = 938.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150  
 BETA = -2.000 ELEVON = 4.000  
 AILRON = .000 SPOBRK = .000  
 RUDDER = .000 BDFLAP = 16.300

PARAMETRIC DATA

MACH ( 1 ) = 10.800 ALPHA ( 1 ) = 37.849 PN/L = 1.907 Q = 2.462 P = .033 PT = 1824.750

DEPENDENT VARIABLE CP

SECTION ( 1 ) UPPER WING

X/C	.30	.36	.43	.53	.67	.78	.89
.000	.0846	.0837	.3093	.9290	.5984	.5899	.4310
.020			.0293	.1193	.1206	.0778	.0594
.040		.0124	.0129				
.060	.0262			.0507	.0551	.0484	.0440
.080				.0346			
.081			.0100				
.084		.0134					
.094	.0129			.0113	.0294	.0328	.0365
.130		.0147					
.163			.0130				
.177	.0120						
.229		.0143		.0130	.1839	.0373	.0359
.246			.0138				
.274							
.362	.0147						
.390		.0133					
.400			.0149	.0149	.2480		.0317
.402							
.427	.0167		.0149				
.550			.0147	.0137	.0862		
.563							
.600					.0351		.0283
.650							
.700	.0144			.0137	.0416		
.725							
.750			.1737			.0294	.0273
.760				.0122	.0300		
.773			.3091				
.808		.0132					
.814				.0132	.0238	.0232	
.850			.0312				
.863	.0126						.0283
.900	.0104		.0149	.0101	.0214		
.903							
.950			.0134	.0134		.0233	
.953			.0318				

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(REMARKS)

DATE IN FEB 75 TABULATED PRESSURE DATA - DAB3  
AMES 3.5-194 DAB3 010 RCS ON WING UPPER SURFACE

MACH (.1) = 10.880 ALPHA (1) = 37.849  
SECTION 1. UPPER WING DEPENDENT VARIABLE CP  
2778 .30 .43 .53 .67 .78 .89

1/C  
.003 .0000



TABULATED PRESSURE DATA - CARS

DATE 19 FEB 75

(PENG28) ( 28 AUG 74 )

AMES 3.5-194 CARS OLD RCS OFF WING UPPER SURFACE

PARAMETRIC DATA

BETA = -2.000 ELEVON = 4.000  
 AILRON = .000 SPDRK = .000  
 RUDDER = .000 BOFLAP = 16.308

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 474.0000 IN. YMRP = .0000 IN.  
 SREF = 536.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

MACH ( 1 ) = 10.800 ALPHA ( 1 ) = 29.750 RN/L = 1.92. Q = 2.407 P = .032 PT = 1777.078

DEPENDENT VARIABLE CP

SECTION ( 1 ) UPPER WING

RY/R 30 .56 .43 .53 .67 .78 .89

R/C

.030	.0394	.0602	.4353	1.5261	.7383	.7591	.6217
.020			.0368	.0000	.1819	.1163	.1029
.040		.0066	.0280				
.060	.0230			.1013	.0809	.0979	.0575
.080				.6696			
.100		.0145					
.120		.0039					
.140	.0089			.0231	.0497	.0255	.0240
.160		.0065					
.180			.0037				
.200	.0092						
.220		.0057		.0068	.3263	.0163	.0116
.240			.0032				
.260	.0079	.0038		.0054	.4065		.010
.280							
.300			.0045				
.320	.0070			.0049	.0817		
.340			.0059				
.360							.0058
.380				.0069	.0243	.0116	
.400	.0050						
.420				.0069		.0287	.0089
.440			.1069				
.460			.0093	.0058	.0192		
.480							
.500	.0061			.0084	.0093	.0124	
.520			.0327				
.540		.0097		.0084			.0075
.560	.0093		.0071	.0084	.0084		
.580			.0051			.0110	
.600			.0070				

DATE 10 FEB 78

TABULATED PRESSURE DATA - 3493

PAGE 116

AMES 315-194 0483 310 RCS OFF WING UPPER SURFACE

(REWB281)

WASH 111 10.290 ALPHA (1) 2 29.780

SECTION (1) UPPER WING DEPENDENT VARIABLE C<sub>D</sub>

2770	30	.30	.43	.55	.67	.78	.89

1/C

.003 .0078



DATE 10 FEB 75 TABULATED PRESSURE DATA - 0403

AMES 3.5-194 0403 010 RCS OFF WING UPPER SURFACE (NEWB29) ( 26 AUG 74 )

REFERENCE DATA				PARAMETRIC DATA			
REF	2000.0000 50.000	YMRP	.0000 IN.	BETA	-2.000	ELEVON	4.000
REF	474.0000 IN.	YMRP	.0000 IN.	AILRON	.000	SPDRK	.000
REF	536.7500 IN.	YMRP	.0000 IN.	RUDDER	.000	BDPLAP	18.300
SCALE	.0100						
WACH	1.10	10.890	ALPHA (1) = 33.824	RM/L	1.913	Q	2.434
					P		
						PT	1000.000

DEPENDENT VARIABLE CP

SECTION (1) UPPER WING

ST/B	.30	.36	.43	.53	.67	.78	.89
0.00	.0765	.0764	.3892	1.2189	.6858	.8707	.5297
.080		.0410	.1848	.1507	.0945	.0791	
.240	.0029	.0177	.0707	.0687	.0478	.0489	
.310	.0187		.0491				
.400		.0092					
.481		.0022					
.584	.0051						
.710		.0034	.0134	.0401	.0280	.0208	
.803			.0004				
.877	.0082	.0028					
.929			.0035	.5707	.0176	.0116	
.948		.0020					
.974	.0038						
.990		.0035					
.990			.0037	.4272		.0088	
.997	.0030	.0029					
.999		.0039					
.999				.0132		.0080	
.999	.0036			.0249			
.999		.0049					
.999			.0036	.0171	.0096		
.999		.0076					
.999		.0134					
.999	.0052		.0249	.0119	.0124		
.999		.0255					
.999	.0086						.0096
.999	.0035		.0041	.0117			
.999		.0058				.0134	
.999			.0039				
.999		.0052					

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DATE 10 FEB 75 TABULATED PRESSURE DATA - 0.83

AMES 3.5-194 2483 010 RCS OFF WING UPPER SURFACE

(REWB301)

( 8 AUG 74 )

REFERENCE DATA

REF 1 1000.0000 36. FT. 1MRP = .0000 IN.  
 REF 2 474.0000 IN. 1MRP = .0000 IN.  
 REF 3 936.7000 IN. 2MRP = .0000 IN.  
 SCALE = .0193

PARAMETRIC DATA

BETA = -2.000 ELEVON = 4.000  
 ALLROM = .000 SPOBR = .000  
 RUDDER = .000 ROPLAF = 16.300

MACH (1) = 10.290 ALPHA (1) = 37.830 RM/L = 1.000 Q = 2.460 P = .033 PT = 1023.000

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

RY/B .30 .36 .43 .53 .67 .78 .89

X/C

.000	.0702	.0871	.3162	.9493	.8030	.5866	.4436
.020		.0306	.1227	.1207	.0836	.0826	
.040		.0029	.0138				
.060	.0206		.0317	.0332	.0463	.0421	
.080			.0338				
.100		.0034					
.120	.0033						
.140	.0035			.0120	.0305	.0282	.0217
.160		.0017	.0043				
.180	.0048						
.200	.0038			.0034	.4809	.0207	.0135
.220							
.240	.0050	.0034					
.260				.0036	.3734		.0129
.280			.0046				
.300	.0067			.0084	.0970		
.320		.0068					.0145
.340					.0169		
.360	.0080			.0060	.0302		
.380						.0313	.0143
.400		.0078		.0087	.0229		
.420		.0710					
.440	.0036			.0077	.0183	.0193	
.460		.0230					
.480	.0038						.0143
.500	.0075		.0084	.0036	.0172		
.520				.0083		.0171	
.540		.0087					

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DATE 19 FEB 75

TABULATED PRESSURE DATA - OAB3

AMES 3.5-194 OAB3 D10 RCS OFF WING UPPER SURFACE

INCEB301

MACH 1.153 10.290 ALPHA (1) = 37.830

SECTION 1 UPPER WING

DEPENDENT VARIABLE CP

X/Y	30	35	40	45	50	55	60	65	70	75	80
CP	.30	.36	.43	.53	.67	.78	.89				

R/C

985 3057





REMARKS

DATE 9 FEB 73 TABULATED PRESSURE DATA - 0403  
 AMES 3.5-194 2403 310 ECS ON WING UPPER SURFACE

MACH 0.154 TO 0.200 ALPHA 1.375 29.746  
 SECTION 10 UPPER WING DEPENDENT VARIABLE CP  
 P10 30 .36 .43 .53 .67 .78 .89

END  
 1005 0103





DATE 10 APR 65

TABULATED PRESSURE DATA - DABS

PAGE 121

AMES 5-194 DABS D10 ACS ON WING UPPER SURFACE

(REMOVED)

WING 1 1 1 1 10 800 ALPHA 1 1 1 1 33 757

SPECIM	UPPER WING	DEPENDENT VARIABLE C <sub>D</sub>
2718	50	36 .43 .93 .67 .70 .89

R/C

865 0327



DATE 10 FEB 75 TABULATED PRESSURE DATA - 0483

AMES 313-194 DABS 010 RCS ON WING UPPER SURFACE (REWB3B) ( 26 AUG 74 )

# REFERENCE DATA

REF 1 0000 0000 50 PT. YMRP 2 0000 IM. BETA 2 2.000 ELEVOM 2 4.000  
 REF 2 0000 0000 50 PT. YMRP 2 0000 IM. AILROM 2 0.000 SPOBRK 2 0.000  
 REF 3 0000 0000 50 PT. YMRP 2 0000 IM. RUDDER 2 0.000 ODPLAP 2 10.300  
 SCA 2 0 0.150

# PARAMETRIC DATA

MACH ( 1 ) 10.800 ALPHA ( 1 ) 57.719 RM/L 1.017 Q 2.421 P .033 PY 1000.010

# SECTION 1 UPPER WING DEPENDENT VARIABLE CP

0770 30 36 43 53 67 76 89

R/C

0800	.0811	.0815	.0808	.0808	.0802	.0822	.0809
0820	.0803	.0815	.0815	.0815	.0811	.0824	
0840	-.0090	-.0124					
0860	.0340		.0217	.0379	.0214	.0179	
0880			.0086				
0900		-.0119					
0920	-.0092	.0390					
0940			-.0125	.0143	.0143	.0193	
0960	-.0093						
0980			-.0090				
1000	-.0090	-.0093					
1020		-.0120			.0179	.0177	
1040	-.0089						
1060		-.0121					
1080			-.0084	.0104		.0134	
1100	-.0083						
1120			-.0087	.0014			
1140	-.0087						
1160		-.0087					
1180					.0040		
1200	-.0089			.0143			
1220		-.0083					
1240					.0037	.0201	
1260		.0092					
1280		.0432					
1300	-.0190						
1320			-.0111	-.0090	-.0036		
1340		.0122					
1360	-.0040						
1380	-.0132						
1400			-.0019	-.0091			
1420			-.0049				
1440							
1460							
1480							
1500							



AMES 3.5-194 0483 010 PCS OFF WING UPPER SURFACE (RCH0343) ( 28 AUG 74 )

REFERENCE DATA  
 XREF = 2000.0000 30 FT. XMRP = .0000 IN.  
 LREF = 474.8000 IN. YMRP = .0100 IN.  
 RREF = 936.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

PARAMETRIC DATA  
 BETA = 2.000 ELEVON = 4.000  
 AILRON = .000 SPOBRK = .000  
 RUDDER = .000 BOFLAP = 10.500

MACH ( 1 ) = 10.290 ALPHA ( 1 ) = 29.735 RM/L = 1.912 Q = 2.464 P = .033 PT = 1025.57

SECTION ( 1 ) UPPER WING DEPENDENT VARIABLE CP

ST/B	.30	.36	.43	.53	.67	.76	.89
X/C							
.000	.0483	.0473	.3043	1.2327	.6484	.6436	.5169
.020			.0321	.1800	.1835	.1830	.0843
.040		.0048	.0159				
.060	.0199			.0765	.0783	.0560	.0503
.080				.0497			
.100		.0067					
.120	.081		.0032				
.140	.084						
.160	.094	.0060					
.180	.150			.0193	.0485	.0335	.0234
.200	.163	.0021					
.220	.177		.0042				
.240	.229	.0053					
.260	.246		.0044				
.280	.290			.0086	.3914	.0239	.0130
.300	.214		.0034				
.320	.362	.0044					
.340	.390	.0039					
.360	.400			.0058	.3093		.0085
.380	.402		.0046				
.400	.497			.0058	.0555		
.420	.350		.0058			.0203	.0097
.440	.383						
.460	.600						
.480	.630						
.500	.700	.0063			.3277		
.520	.729			.0056		.0174	.0292
.540	.750						
.560	.760		.1858				
.580	.775			.0072	.0285		
.600	.808		.3096				
.620	.834	.0053					
.640	.830			.0087	.0139	.0112	
.660	.837		.0102				
.680	.863						
.700	.900	.0076		.0083	.0103		.0136
.720	.903		.0091			.0097	
.740	.930			.0092			
.760	.933		.0050				

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DATE 15 FEB 75

TABULATED PRESSURE DATA - DAB3

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AMES 3.5-194 DAB3 D10 RCS OFF WING UPPER SURFACE

(REWB34)

MACH (1) = 10.890 ALPHA (1) = 29.735

SECTION : 1) UPPER WING

DEPENDENT VARIABLE CP

RY/B	.30	.36	.43	.53	.67	.76	.89
X/C	.98	.98	.98	.98	.98	.98	.98

X/C

.98 .98 .98 .98 .98 .98 .98





TABULATED PRESSURE DATA - GAB3

DATE 10 FEB 73

AMES 1.5-194 QAB3 OLD RCS OFF WING UPPER SURFACE (REWB33) ( 18 AUG 74 )

REFERENCE DATA

AREA = 2000.0000 SQ.FT. XMRP = .0000 IN. BETA = 2.0000 ELEVON = 4.0000  
 LREF = 474.8000 IN. YMRP = .0000 IN. AILRON = .0000 SPOBRK = .0000  
 BRP = 916.7000 IN. ZMRP = .0000 IN. RUDDER = .0000 BDPLAP = 16.3000  
 SCALE = .0133

PARAMETRIC DATA

MACH ( 1 ) = 10.290 ALPHA ( 1 ) = 33.756 RN/L = 1.933 0 = 2.435 P = .033 PT = 1799.878

DEPENDENT VARIABLE CP

SECTION 1 ( UPPER WING

ST/B	.30	.36	.43	.53	.67	.78	.89
1/C							
.000	.0429	.0439	.2702	.9839	.5981	.5946	.4547
.020			.0234	.1268	.1383	.0922	.0663
.040		-.0003	.0088				
.060	.0150			.0517	.0616	.0542	.0425
.080				.0336			
.100		-.0002	.0028				
.120	.0027			.0391	.0393	.0298	.0186
.140		-.0004					
.160			-.0006				
.180	.0015						
.200		.0009		.0013	.5239	.0185	.0105
.220			.0023				
.240	.0008						
.260		.0032		.0012	.4202		.0081
.280			.0012				
.300	.0032			.0021	.0529		
.320			.0016				
.340					.0180		.0074
.360	.0017			.0027	.0257		
.380						.0267	.0139
.400		.0087		.0019	.0261		
.420			.0073				
.440	.0030			.0031	.0137	.0143	
.460			.0267				
.480		.0063		.0028			.0112
.500	.0015		.0038		.0117		
.520				.0017		.0106	
.540			.0031				

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(RE-DBS)

DATE 10 DEC 75 TABULATED PRESSURE DATA - OAB3  
 AMES 3.5-194 OAB3 010 RCS OFF WING UPPER SURFACE

MACH 1.14 10.800 ALPHA (1) = 33.756  
 SEC 124 UPPER WING DEPENDENT VARIABLE CP  
 27/8 .30 .36 .43 .51 .67 .70 .89

W/C  
 .000 .0000



DATE 19 FEB 79 TABULATED PRESSURE DATA - 0483

ANES 3.3-194 0483 OLD RCS OFF WING UPPER SURFACE (REMB38) ( 28 AUG 74 )

REFERENCE DATA  
MACH ( 1 ) = 10.890 ALPHA ( 1 ) = 37.715 RM/L = 3.021 Q = 2.421 P = .033 PT = 1000.00  
BREF = 2690 0000 30 FT. YMRP = .0000 IN. BETA = 2.000 ELEVON = 4.000  
LREF = 474.8000 IN. YMRP = .0000 IN. AILRON = .000 SPOBRK = .000  
BREF = 930.7000 IN. ZMRP = .0000 IN. RUDDER = .000 BOFLAP = 10.300  
SCALE = .0150

PARAMETRIC DATA

SECTION ( UPPER WING									
DEPENDENT VARIABLE CP									
X/C	Y/C	Z/C	CP	CPX	CPY	CPZ	CPM	CPD	CPV
.000	.0223	.0220	.2220	.0224	.5859	.5160	.3719		
.020			-.0003	.0805	.1059	.0509	.0273		
.040		-.0196	-.0125						
.060	.0013		.0210	.0336	.0191	.0135			
.080			.0064						
.081			-.0177						
.084		.0211							
.094	-.0165								
.150			-.0130	.0137	-.0013	-.0075			
.163		-.0138							
.177		-.0164							
.229	-.0171	-.0172							
.246			-.0173	.7399	-.0105	-.0159			
.250									
.274		-.0153							
.362	-.0176	-.0156							
.390									
.400			-.0164	.7234		-.0155			
.402			-.0160						
.497	-.0151		-.0155	.0487					
.550			-.0168						
.563									
.600									
.610									
.700	-.0156			.0081		-.0114			
.729			-.0181						
.790									
.790			.4541						
.790			-.0159	-.0049					
.799			1.0597						
.808									
.814	-.0183		-.0151	-.0113	-.0092				
.819									
.817		.0156							
.868	-.0164		-.0159						
.900	-.0189								
.909			-.0134	-.0112					
.910			-.0153			-.0114			
.913			-.0147						

(RE-038)

DATE IN FEB 75      TABULATED PRESSURE DATA - 0123  
 AMES 3.9-194 048 310 RCS OFF WING UPPER SURFACE

WACH 1 11 3 19.800    ALPHA 1 11 3 37.715  
 SECTION 1 UPPER WING      DEPENDENT VARIABLE CP  
 P1/0      50      .30      .43      .53      .67      .78      .89

N/C      965      0134



0412 - 0 FEB 75

REF 0371 1450W331 ( 28 AUG 84 )

JAMES J. 5-194 DASH 019 RCS CW WING UPPER SURFACE

SECRET DATA

ITEM	QTY	UNIT	PRICE	TOTAL	TAX	DISC	NET	GST	GRAND TOTAL
1.000 IN.	1.000	IN.	1.000	1.000	0.000	0.000	1.000	0.000	1.000
2.000 IN.	2.000	IN.	2.000	2.000	0.000	0.000	2.000	0.000	2.000
3.000 IN.	3.000	IN.	3.000	3.000	0.000	0.000	3.000	0.000	3.000
4.000 IN.	4.000	IN.	4.000	4.000	0.000	0.000	4.000	0.000	4.000
5.000 IN.	5.000	IN.	5.000	5.000	0.000	0.000	5.000	0.000	5.000
6.000 IN.	6.000	IN.	6.000	6.000	0.000	0.000	6.000	0.000	6.000
7.000 IN.	7.000	IN.	7.000	7.000	0.000	0.000	7.000	0.000	7.000
8.000 IN.	8.000	IN.	8.000	8.000	0.000	0.000	8.000	0.000	8.000
9.000 IN.	9.000	IN.	9.000	9.000	0.000	0.000	9.000	0.000	9.000
10.000 IN.	10.000	IN.	10.000	10.000	0.000	0.000	10.000	0.000	10.000
11.000 IN.	11.000	IN.	11.000	11.000	0.000	0.000	11.000	0.000	11.000
12.000 IN.	12.000	IN.	12.000	12.000	0.000	0.000	12.000	0.000	12.000
13.000 IN.	13.000	IN.	13.000	13.000	0.000	0.000	13.000	0.000	13.000
14.000 IN.	14.000	IN.	14.000	14.000	0.000	0.000	14.000	0.000	14.000
15.000 IN.	15.000	IN.	15.000	15.000	0.000	0.000	15.000	0.000	15.000
16.000 IN.	16.000	IN.	16.000	16.000	0.000	0.000	16.000	0.000	16.000
17.000 IN.	17.000	IN.	17.000	17.000	0.000	0.000	17.000	0.000	17.000
18.000 IN.	18.000	IN.	18.000	18.000	0.000	0.000	18.000	0.000	18.000
19.000 IN.	19.000	IN.	19.000	19.000	0.000	0.000	19.000	0.000	19.000
20.000 IN.	20.000	IN.	20.000	20.000	0.000	0.000	20.000	0.000	20.000
21.000 IN.	21.000	IN.	21.000	21.000	0.000	0.000	21.000	0.000	21.000
22.000 IN.	22.000	IN.	22.000	22.000	0.000	0.000	22.000	0.000	22.000
23.000 IN.	23.000	IN.	23.000	23.000	0.000	0.000	23.000	0.000	23.000
24.000 IN.	24.000	IN.	24.000	24.000	0.000	0.000	24.000	0.000	24.000
25.000 IN.	25.000	IN.	25.000	25.000	0.000	0.000	25.000	0.000	25.000
26.000 IN.	26.000	IN.	26.000	26.000	0.000	0.000	26.000	0.000	26.000
27.000 IN.	27.000	IN.	27.000	27.000	0.000	0.000	27.000	0.000	27.000
28.000 IN.	28.000	IN.	28.000	28.000	0.000	0.000	28.000	0.000	28.000
29.000 IN.	29.000	IN.	29.000	29.000	0.000	0.000	29.000	0.000	29.000
30.000 IN.	30.000	IN.	30.000	30.000	0.000	0.000	30.000	0.000	30.000
31.000 IN.	31.000	IN.	31.000	31.000	0.000	0.000	31.000	0.000	31.000
32.000 IN.	32.000	IN.	32.000	32.000	0.000	0.000	32.000	0.000	32.000
33.000 IN.	33.000	IN.	33.000	33.000	0.000	0.000	33.000	0.000	33.000
34.000 IN.	34.000	IN.	34.000	34.000	0.000	0.000	34.000		

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2
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SMITHSONIAN INSTITUTION

DEPENDENT VARIABLE

[illegible]

20

000	0190	0010	0051	1.4569	0155	0.7590	0.6464
001			0046	0.2300	0.2017	0.1219	0.1003
002		00100	0038				
003	0197			0.0695	0.0844	0.0451	0.0374
004			0037	0.0537			
005		00335	00167				
006	0210			0.0011	0.0490	0.0069	0.0010
007		00100	00151				
008	00213						
009		00190		0.0111	0.1535	0.0007	0.0126
010			00120				
011	00172						
012		00130		0.0067	0.1233		0.0132
013			00109				
014	00190			0.0097	0.0054		0.0124
015			00111			0.0069	
016					0.0065		
017	00113			0.0113		0.0654	0.0164
018			0001				
019				0.0129	0.0081		
020			0040				
021	00143						
022			00130	0.0136	0.0082	0.0036	
023							
024	0007						0.0086
025	00150			0.0143			
026			00177		0.0083		
027				0.0142		0.0072	
028			002				

DATE 15 FEB 75

TABLED PRESSURE DATA - DAB5

PAGE 104

AMES 515-194 DAB5 D10 RCS ON WING UPPER SURFACE

HEW837

MACH 1.10 \* 7.300 ALPHA (1) = 23.775

SECTION 1 UPPER WING

DEPENDENT VARIABLE CP

RY/O .50 .56 .62 .65 .67 .76 .89

W/C

.005 .0003



DATE 15 FEB 74

INSULATED PRESSURE DATA - 0483

AMES 3-184 3483 DIG RCS ON WING UPPER SURFACE

(REMO30) (28 AUG 74)

REFERENCE DATA

REF 1 7000.0000 50 FT. WARP 1 0.0000 IN. BETA 1 0.000 ELEVON 1 -6.300  
 REF 2 474.0000 IN. WARP 2 0.0000 IN. ALCON 1 0.000 SPDRK 1 0.000  
 REF 3 936.0000 IN. WARP 3 0.0000 IN. RUDDER 1 0.000 BOFLAP 1 -11.700  
 SCALE 1 0.150

PARAMETRIC DATA

MACN (1) 0 7.320 ALPHA (1) 0 27.002 RM/L 0 9.262 Q 1 12.007 P 1 0.320 PT 0 1789.270

SECTION 1 UPPER WING DEPENDENT VARIABLE CP

RY/S 0.50 0.50 0.43 0.33 0.27 0.18 0.05

R/C

0.00	0.0225	0.0231	0.004	1.2445	0.600	0.944	0.922
0.01	0.0111	0.0111	0.000	1.038	0.948	0.952	
0.02	0.0103	0.0099					
0.03	0.0103		0.000	0.627	0.264	0.233	
0.04	0.001		0.000	0.325			
0.05	0.014						
0.06	0.010			0.0076	0.035	0.049	0.0073
0.07	0.000						
0.08	0.0174		0.000				
0.09	0.0092			0.0075	1.604	0.037	0.0091
0.10	0.0113		0.000				
0.11				0.0024	0.1267		0.0117
0.12	0.0104			0.0100			
0.13				0.0100	0.007		
0.14	0.0149						
0.15				0.0074			0.0132
0.16	0.0133			0.0034			
0.17	0.0136				0.0035	0.0057	
0.18	0.0093			0.008	0.0093		
0.19	0.0133			0.0035	0.0117	0.0072	
0.20	0.0001			0.0020			0.0090
0.21	0.0210				0.0108		
0.22	0.0239			0.0020			0.0087
0.23	0.0131						

(REMB38)

DATE 10 FEB 75 TABULATED PRESSURE DATA - 0403

AMES 3.5-104 0403 010 RCS ON WING UPPER SURFACE

MACH 1.1 7.570 ALPHA (1) 27.802

SECTION 1 UPPER WING DEPENDENT VARIABLE CP

STATION	30	36	43	53	67	70	80
CP							

END

003 - 0102





TABLED PRESSURE DATA - JAB3

AMES 3 5-10-68 JAB3 DIS RCS ON WING UPPER SURFACE

PARAMETRIC DATA

BETA = .000 ELEVON = -0.000  
 AL-SON = .000 SPOBR = .000  
 RUDDER = .000 BOFLAP = -11.750

REFERENCE DATA

REF 1 0000.0000 10 FT 1400 1 0000 IN  
 REF 2 474 0000 IN 1400 1 0000 IN  
 REF 3 930 0000 IN 1400 1 0000 IN  
 REF 4 0130

WING (1) 0 0.380 ALPHA (1) 0 31.013 EN/C 0 0.175 0 0.930 P 0 .230 PT 0 1327.840

SECTION (1) UPPER WING DEPENDENT VARIABLE CM

REF 1 000 0243 0246 0248 1 0302 0306 0342 0401

REF 2 0020 0016 0018 0016 0016 0016 0016 0016

REF 3 040 0000 0000 0000 0000 0000 0000 0000

REF 4 000 0000 0000 0000 0000 0000 0000 0000

REF 5 000 0000 0000 0000 0000 0000 0000 0000

REF 6 000 0000 0000 0000 0000 0000 0000 0000

REF 7 000 0000 0000 0000 0000 0000 0000 0000

REF 8 000 0000 0000 0000 0000 0000 0000 0000

REF 9 000 0000 0000 0000 0000 0000 0000 0000

REF 10 000 0000 0000 0000 0000 0000 0000 0000

REF 11 000 0000 0000 0000 0000 0000 0000 0000

REF 12 000 0000 0000 0000 0000 0000 0000 0000

REF 13 000 0000 0000 0000 0000 0000 0000 0000

REF 14 000 0000 0000 0000 0000 0000 0000 0000

REF 15 000 0000 0000 0000 0000 0000 0000 0000

REF 16 000 0000 0000 0000 0000 0000 0000 0000

REF 17 000 0000 0000 0000 0000 0000 0000 0000

REF 18 000 0000 0000 0000 0000 0000 0000 0000

REF 19 000 0000 0000 0000 0000 0000 0000 0000

REF 20 000 0000 0000 0000 0000 0000 0000 0000

REF 21 000 0000 0000 0000 0000 0000 0000 0000

REF 22 000 0000 0000 0000 0000 0000 0000 0000

(REF 030)

DATE 10 FEB 75 TABULATED PRESSURE DATA - 0401

AMES 519-104 5A03 010 MCS ON WING UPPER SURFACE

WACH 1 31 0 7 300 ALPHA 1 12 0 31-013

SECTION 10 UPPER WING DEPENDENT VARIABLE CP

PRZ	30	30	.45	.55	.67	.70	.69

END  
005 0113



INTEGRATED PRESSURE DATA - 0483

AMES 3-D-190 JARD 010 S 3-DF WING UPPER SURFACE

INTEGRATED 1 20 116 75 1

REFERENCE DATA

0000 1 2000 0000 30 0 1000 0000 10 0000 10 0000 10 0000 10  
 0000 1 0000 0000 10 0000 0000 10 0000 0000 10 0000 10  
 0000 1 0000 0000 10 0000 0000 10 0000 0000 10 0000 10  
 0000 1 0000 0000 10 0000 0000 10 0000 0000 10 0000 10  
 0000 1 0000 0000 10 0000 0000 10 0000 0000 10 0000 10

0000 1 0000 0000 10 0000 0000 10 0000 0000 10 0000 10  
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 0000 1 0000 0000 10 0000 0000 10 0000 0000 10 0000 10  
 0000 1 0000 0000 10 0000 0000 10 0000 0000 10 0000 10

DEPENDENT VARIABLE CP

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DATE 10 FEB 75

TABULATED PRESSURE DATA - DABS

PAGE 1

AMES 3-5-15-1 DABS 310 R/S OFF WING UPPER SURFACE

REWB001

MACH 0.150 P 320 ALPHA 1.10 25.740

SECTION 1 UPPER WING

DEPENDENT VARIABLE C<sub>p</sub>

X	Y	C <sub>p</sub>
0.00	0.00	0.00
0.05	0.05	0.05
0.10	0.10	0.10
0.15	0.15	0.15
0.20	0.20	0.20
0.25	0.25	0.25
0.30	0.30	0.30
0.35	0.35	0.35
0.40	0.40	0.40
0.45	0.45	0.45
0.50	0.50	0.50
0.55	0.55	0.55
0.60	0.60	0.60
0.65	0.65	0.65
0.70	0.70	0.70
0.75	0.75	0.75
0.80	0.80	0.80
0.85	0.85	0.85
0.90	0.90	0.90
0.95	0.95	0.95
1.00	1.00	1.00

TTC

001 0202



DATE 19 FEB 79 TABULATED PRESSURE DATA - 0403

AGES 3.5-19.4 0403 OLD RCS OFF WING UPPER SURFACE

(REMOVED) ( 20 AUG 74 )

REFERENCE DATA

SACR = 2690.0000 IN. YR = 0.0000 IN.  
 SACP = 474.8000 IN. YR = 0.0000 IN.  
 SACP = 338.7000 IN. YR = 0.0000 IN.  
 SACP = 0.0000 IN. YR = 0.0000 IN.

PARAMETRIC DATA

BETA = 0.000  
 ELEVON = -6.000  
 AILERON = 0.000  
 SPOILER = 0.000  
 RUDDER = 0.000  
 BOFLAP = -11.700

MACH = 0.150 ALPHA = 7.320 ROL = 7.905 Q = 11.970 P = 0.314 RT = 1793.300

DEPENDENT VARIABLE CP

STATION 1 UPPER WING

STATION 2 35 43 53 67 78 89

000	0174	0179	0237	0294	0369	0664
023	0206	0257	0385	0494	0702	
040	0223	0303				
060	0216	0355	0469	0659	0817	
080		0295				
100		03193				
120		0104				
140	0210		0241	0 2	0069	
160		0230				
180						
200	0214					
220		0212				
240			0267	0965	0002	0155
260		0210				
280						
300	0212					
320		0211				
340			0207	1274		0169
360						
380	0219			0048		
400		0236				
420						
440						
460						
480						
500						
520						
540						
560						
580						
600						
620						
640						
660						
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820						
840						
860						
880						
900						
920						
940						
960						
980						
1000						

DATE IN 1984

YABJ LTED PRESSURE DATA - 0483

AMES 315-194 0483 010 075 OFF WING JOPER 5 - ACE

0483-010

WATER 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

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PERCENT AVAILABLE CO

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1000 1000 1000 1000 1000 1000 1000 1000 1000 1000



DATE 10 FEB 75 TABULATED PRESSURE DATA - DABS

AMES 3-5-19- DABS 010 RCS OFF WING UPPER SURFACE (REWB42) ( 26 AUG 74 )

REFERENCE DATA

REF 1 1550.0000 10.0 FT. XMRP 1 10000 IN. BETA 1 .0000 ELEVON 1 -6.0000  
 REF 2 474.0000 IN. XMRP 2 10000 IN. ALLRON 1 .0000 SPOBRK 1 .0000  
 REF 3 936.7000 IN. XMRP 3 10000 IN. RUDDER 1 .0000 BOFLAP 1 -11.7000  
 SCALE 1 0.150

PARAMETRIC DATA

MACH 1 0.75 ALPHA 1 10 3 31.084 RN/L 1 7.139 Q 1 11.051 P 1 .316 PT 1 1790.100

SECTION 1 UPPER WING DEPENDENT VARIABLE CP

2778 .30 .36 .43 .53 .67 .76 .89

771

000 .0216 .0212 .0276 1 .0512 .6984 .6157 .4912  
 .020 .0035 .1185 .1375 .0777 .0484  
 .040 - .0218 -.0125  
 .055 -.0166 .0384 .0472 .0284 .0112  
 .060 .0174  
 .081 -.0200  
 .094 -.0154  
 .094 -.0209  
 .150 -.0223  
 .163  
 .177 -.0197  
 .225 -.0212  
 .245 -.0197  
 .250  
 .274 -.0191  
 .382 -.0219  
 .390  
 .400  
 .407  
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 .947  
 .957  
 .967  
 .977  
 .987  
 .997

(REMB42)

TABULATED PRESSURE DATA - Q403

ANES 3.5-194 Q403 Q10 RCS OFF WING UPPER SURFACE

MACH (1) = 7.320 ALPHA (1) = 31.664

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

STATION	CP	STATION	CP	STATION	CP
1	.30	2	.43	3	.53
4	.67	5	.78	6	.89

R/C  
ANES - 0181





DATE 13 FEB 75 TABULATED PRESSURE DATA - 0483

AMES 3.5-1.4 0483 010 RCS ON WING UPPER SURFACE (RECN43) ( 20 AUG 74 )

PARAMETRIC DATA

BETA = .000 ENERGY = 1.000  
 ALPHA = .000 SPDRM = .000  
 RUGGER = .000 BOLLAP = 16.300

REFERENCE DATA

WING 1 11.1 2.320 ALPHA (1) = 25.750 ENVI = 9.797 Q = 12.555 P = .381 01 = 1797.790  
 REF 1 5593 0000 10.0 FT 1483 = 0000 IN  
 REF 2 474 8000 IN 1483 = 0000 IN  
 REF 3 636 7000 IN 1483 = 0000 IN  
 SCALE = 0.137

SECTION 1 11.1 2.320 WING DEPENDENT VARIABLE CP

REF 1 5593 0000 10.0 FT 1483 = 0000 IN

REF 2 474 8000 IN 1483 = 0000 IN

REF 3 636 7000 IN 1483 = 0000 IN

REF 4 798 6000 IN 1483 = 0000 IN

REF 5 960 5000 IN 1483 = 0000 IN

REF 6 1122 4000 IN 1483 = 0000 IN

REF 7 1284 3000 IN 1483 = 0000 IN

REF 8 1446 2000 IN 1483 = 0000 IN

REF 9 1608 1000 IN 1483 = 0000 IN

REF 10 1770 0000 IN 1483 = 0000 IN

REF 11 1932 0000 IN 1483 = 0000 IN

REF 12 2094 0000 IN 1483 = 0000 IN

REF 13 2256 0000 IN 1483 = 0000 IN

REF 14 2418 0000 IN 1483 = 0000 IN

REF 15 2580 0000 IN 1483 = 0000 IN

REF 16 2742 0000 IN 1483 = 0000 IN

REF 17 2904 0000 IN 1483 = 0000 IN

REF 18 3066 0000 IN 1483 = 0000 IN

REF 19 3228 0000 IN 1483 = 0000 IN

REF 20 3390 0000 IN 1483 = 0000 IN

REF 21 3552 0000 IN 1483 = 0000 IN

REF 22 3714 0000 IN 1483 = 0000 IN

DATE 15 FEB 75 TABULATED PRESSURE DATA - 0483

AMES 5.5-194 0483 10 605 IN WIND UPPER SURFACE

WING 1 1 7 320 ALPHA 1 11 2 23.750  
SECTION 1 UPPER WING DEPENDENT VARIABLE CP  
P1 2 30 36 43 53 67 74 89

END  
0483 - 0209



DATE 10 FEB 75 TABULATED PRESSURE DATA - 0483

AMES 3 5-194 DARS J10 R05 IN WING UPPER SURFACE (REMB44) ( 28 AUG 74 )

PARAMETRIC DATA

BETA = .000 ELEVON = 1.000  
 ALLORN = .000 SPOOR = .000  
 RUDER = .000 ROLAP = 10.300

REFERENCE DATA

SREF = 8000 0000 10.71 THRP = .0000 IN.  
 LREF = 474 0000 10 THRP = .0000 IN.  
 RREF = 936 0000 10 ZREF = .0000 IN.  
 SCALE = .0150

MACH ( 1 ) = 7.350 ALPHA ( 1 ) = 27.834 RM/L = 7.141 Q = 31.244 P = .316 PT = 1796.070

SECTION 1 UPPER WING DEPENDENT VARIABLE CP

RY/R .30 .35 .40 .45 .50 .55 .60 .65 .70 .75 .80

R/C

.000	.0233	.0230	.3363	1.2506	.7636	.6073	.5887
.020			.0110	.1632	.1636	.0991	.0715
.040		.3107	-.0092				
.060	-.0130		.0370	.0648	.0209	.0244	
.080			.0319				
.100			-.0068				
.120		-.0031					
.140	-.0148			-.0065	.0349	.0098	-.0052
.160		-.0060					
.180				-.0063			
.200	-.0120						
.220		-.0061		-.0075	.2356	.0060	-.0059
.240							
.260		-.0070					
.280	-.0064						
.300		-.0071					
.320				-.0031	.1845		-.0063
.340				-.0087			
.360	-.0070						
.380				-.0051	.0055		
.400		-.0107					
.420							
.440							
.460							
.480							
.500							
.520							
.540							
.560							
.580							
.600							
.620							
.640							
.660							
.680							
.700							
.720							
.740							
.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
.000							

DATE 19 FEB 75 TABULATED PRESSURE DATA - 2483

ANES 3 3-194 2483 110 405 3N WING UPPER SURFACE

REMARKS

WATN 1 1 0 7 305 ALPHA 10 1 27 034

APPROX 1 10000 WING

DEPENDENT VARIABLE C 10

070 30 36 43 53 67 78 89

070

003 - 0000



DATE 19 78 75 TABULATED PRESSURE DATA - 0483

AMES 3.3-194 0483 010 RCS ON WING UPPER SURFACE (REMB43) ( 29 AUG 76 )

REFERENCE DATA				PARAMETRIC DATA			
AREA	2000 0000 10 FT	AREA	0000 1M	BETA	0	ELEVON	1.000
AREA	474 0000 1M	AREA	0000 1M	ALTRON	0	SPOBER	000
AREA	010 0000 1M	AREA	0000 1M	ADJEN	0	SOFLAP	10.300
AREA	010	AREA					

WING 1 11 0 0 380 ALPHA 11 0 31.070 RWL 0 0 11.000 P 0 .310 AT 0 1700.000

SECTION 1 UPPER WING DEPENDENT VARIABLE CP

2770 .30 .30 .43 .53 .67 .70 .89

000	0272	0073	0293	1.0680	0079	0200	0934
020			0033	01102	01371	00790	0477
040		0073	00179				
060	0074			0360	00476	0200	0123
080				0172			
100			0090				
120		0042					
140	0083						
160				0114	0240	0381	0093
180		0073					
200	0074		0082				
220							
240		0089					
260			0097	0089	0296	0149	0029
280	0073						
300		0090					
320				0023	0179		0067
340			0090				
360	0092			0082	0043		
380			0109				
400						0003	0109
420	0132			0197			
440						0336	0024
460		1489					
480			0007	0132	0099		
500	0102						
520				0199	0110	0078	
540			0136				
560		0104					
580	0167			0176			0064
600			0131		0104		
620				0149		0084	
640			0030				

UNIT OF DATA  
OF POOR QUALITY

(REMBAS)

DATA TO PER 75 TABULATED PRESSURE DATA - 2403

AMES 3.5-194 DARS 310 RCS ON WING UPPER SURFACE

WING 1.10 2 7 320 ALPHA 11.3 31 679

30 PER 100 PER WING

DEPENDENT VARIABLE F

PER 35 30 5 55 67 75 89

1

005 036











40-2000

LABORATED PRESSURE 1 0000

LABORATED PRESSURE 1 0000 1000 1000 1000 1000

LABORATED PRESSURE 1 0000 1000 1000 1000 1000

LABORATED PRESSURE 1 0000 1000 1000 1000 1000

LABORATED PRESSURE 1 0000 1000 1000 1000 1000

END

0000 1000



DATE 10 FEB 75 TABULATED PRESSURE DATA - 0483

WING 3.5-154 0483 010 RCS OFF WING UPPER SURFACE

PARAMETER DATA

REF = 2400.0000 30 FT. YMRP = .0100 IN. BETA = .000 ELEVON = 1.000  
 LREF = 474.0000 IN. YMRP = .0000 IN. AILERON = .000 SPOBRK = .000  
 RREF = 536.7000 IN. YMRP = .0000 IN. RUDDER = .000 BOFLAP = 16.300  
 SCALE = .0150

MACH (1) = 7.320 ALPHA (1) = 31.841 RN/L = 7.904 Q = 11.900 P = .317 PT = 1799.130

SECTION 1 UPPER WING DEPENDENT VARIABLE CP

ST/B	.50	.56	.63	.67	.76	.89
V/C						
.090	-.0269	-.0260	-.2995	1.0667	-.7013	-.8243
.020			-.0020	-.1162	-.1368	-.0785
.040		-.0211	-.0138			
.050	-.0191		.0345	.0461	.0292	.0121
.080			.0157			
.081			-.0213			
.084		.0031				
.094	-.0212			-.0125	.0241	-.0068
.150		-.0232				-.0101
.163						
.177			-.0221			
.226	-.0193					
.246		-.0227		-.0216	-.2147	-.0051
.250			-.0206			-.0169
.274						
.362	-.0240					
.390		-.0207		-.0201	.1988	-.0162
.400						
.402			-.0203			
.497	-.0216			-.0199	-.0064	
.530			-.0201			-.0159
.565					-.0122	
.607						
.650				-.0199	-.0121	
.700	-.0205					
.725						
.750						
.760						
.775						
.808						
.834	-.0200					
.850						
.857						
.861						
.865	-.0438					
.900	-.0186					
.905						
.950						
.953						

ORIGINAL PAGE IS  
OF POOR QUALITY

DATE 15 FEB 78

TABULATED PRESSURE DATA - 0A03

PAGE 156

INES 3.3-194 0A03 019 RCS OFF WING UPPER SURFACE

(REMB101)

MACH (1) = 7.380 ALPHA (1) = 31.841

SECTION 11 UPPER WING

DEPENDENT VARIABLE CP

RY/B	.30	.43	.53	.67	.78	.89
X/C						

X/C

983 -0.0199



DATE 18 FEB 75 TABULATED PRESSURE DATA - 0483

WING 3.3-194 DABS OLD PCS ON WING UPPER SURFACE (REU048) ( 20 AUG 74 )

PARAMETRIC DATA

BETA = .000 ELEVOM = -0.000  
 ALLRON = .000 SPDBRK = .000  
 MUDDER = .000 BOFLAP = -11.700

REFERENCE DATA

WREF = 8690.0000 50.0 FT. WREF = .0000 IN.  
 WREF = 474.0000 IN. WREF = .0000 IN.  
 WREF = 936.7000 IN. WREF = .0000 IN.  
 SCALE = .0100

MACH ( 1 ) = 0.280 ALPHA ( 1 ) = 17.870 RN/L = 3.302 0 = 7.923 P = .400 PT = 2 257.400

SECTION 1 UPPER WING DEPENDENT VARIABLE CP

ST/0 .30 .36 .43 .53 .67 .76 .89

X/C

.000	-.0043	-.0000	.3693	1.3521	.8365	.6183	.7579
.020			.0209	.2500	.2674	.1735	.1570
.040		-.0401	-.0170				
.060	-.0380			.0866	.1210	.0739	.0658
.080				.0549			
.100		-.0347					
.120		-.0260					
.140	-.0392						
.160		-.0375		-.0141	.0600	.0286	.0013
.180			-.0437				
.200	-.2400						
.220		-.0410		-.0423	.3460	.0034	-.0186
.240			-.0406				
.260	-.0390						
.280		-.0431		-.0416	.2914		-.0305
.300			-.0401				
.320	-.0421			-.0422	-.0236		
.340		-.0406				-.0201	-.0264
.360				-.0406	-.0260		
.380	-.0393					.0066	-.0175
.400			.0774				
.420				-.0406	-.0236		
.440			.3650				
.460	-.0370			-.0400	-.0263	-.0213	
.480							
.500	-.0233						
.520		-.0302		-.0386			-.0211
.540			-.0390		-.0237		
.560				-.0375		-.0217	
.580			-.0362				

ORIGINAL PAGE IS  
 OF POOR QUALITY

DATE 10 FEB 73

TABULATED PRESSURE DATA - 0483

PAGE 158

AMES 3.5-194 048 DID RCS ON WING UPPER SURFACE

(REUB49)

MACH 0.150 ALPHA 1.10 17 878

SECTION 1 UPPER WING

DEPENDENT VARIABLE CP

278 0.20 0.36 0.43 0.53 0.67 0.78 0.89

END

963 0.0136



DATE 10 FEB 78 TABULATED PRESSURE DATA - 0483

AMES 3.5-194 DABS D10 RCS ON WING UPPER SURFACE (KREWB30) 1 20 AUG 74 1

REFERENCE DATA

XREF = 2800.0000 36.00 IN. XREF = 0.0000 IN.  
 YREF = 474.0000 IN. YREF = 0.0000 IN.  
 ZREF = 930.0000 IN. ZREF = 0.0000 IN.  
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = -0.000  
 ALLOY = .000 SPOBRK = .000  
 RUDDER = .000 SDFLAP = -11.700

MACH (1) = 0.200 ALPHA (1) = 21.283 RM/L = 3.366 Q = 7.970 P = .412 PT = 200.000

SECTION 1 UPPER WING DEPENDENT VARIABLE CP

RY/R	.30	.36	.43	.53	.67	.76	.89
R/C							
.000	-.0031	-.0013	.3410	1.2554	.8097	.7657	.7046
.020		.034	.2000	.2339	.1390	.1259	
.040		-.0437	-.0232				
.060	-.0394		.0878	.0934	.0938	.0446	
.080			.0326				
.100		-.0397					
.120		-.0142					
.140	-.0406			-.0226	.0431	.0201	-.0086
.160		-.0394					
.177			-.0412				
.220	-.0430						
.240		-.0423					
.250				-.0422	.1432	-.0037	-.0247
.274			-.0401				
.302	-.0424						
.390		-.0409					
.400				-.0403	.1948		-.0241
.402			-.0398				
.497	-.0423						
.550			-.0397				
.569				-.0435	-.0195		
.600							
.650							
.700	-.0374				-.0230		-.0232
.729				-.0396			
.750						.0139	-.0066
.780			.0772				
.795				-.0385	-.0287		
.800			.1785				
.814	-.0391						
.820				-.0366	-.0283	-.0178	
.837			-.0360				
.869	-.0212						
.900	-.0276						
.929			-.0424				-.0211
.950			-.0424		-.0217		
.955				-.0319		-.0194	
.959			-.0299				

DATE 10 FEB 73 TABULATED PRESSURE DATA - 0483

(SEW030)

AMES 3.3-194 0483 010 RPS ON WING JOINT SURFACE

WING (1) 1 5.000 ALPHA (1) 2 21.263

SECTION	UPPER WING	DEPENDENT VARIABLE CP
87/8	.30 .30 .43 .53 .67 .78 .89	

R/C  
1965 - 0244





AMES 3-3-194 0403 010 RCS ON WING UPPER SURFACE

(REMOVED) 1 28 AUG 74

## REFERENCE DATA

## PARAMETRIC DATA

STEP 1 2000 0000 30 FT. ZMRP 0000 IN. DATA 0.000 ELEVON 0 -0.000  
 STEP 2 474 0000 IN. ZMRP 0000 IN. ACTUON 0.000 SPOOR 0 000  
 STEP 3 936 0000 IN. ZMRP 0000 IN. RUDDER 0.000 BOFLAP 0 -11.700  
 SCALE 0 0150

MACH (1) 0.5 200 ALPHA (1) 0.25 765 RM/L 0.3 200 0 7.007 P 0.412 PT 0.301-110

## SECTION 1 UPPER WING DEPENDENT VARIABLE CP

27/8 30 30 45 55 67 70 89

R/C

000	-0.032	-0.013	0.035	1.0990	0.000	0.7177	0.0370
020			0.103	0.414	1.000	1.137	0.060
040		-0.0455	0.0323				
060	-0.0406		0.0559	0.660	0.452	0.0224	
080			0.101				
081		-0.0430					
084		-0.0277					
094	-0.0439						
130			-0.0502	0.259	0.110	-0.0100	
163		-0.0410					
177		-0.0597					
220	-0.0458						
246		-0.0409					
250			-0.0370	0.061	-0.0128	-0.0307	
274		-0.0367					
302	-0.0457						
330		-0.0391					
400			-0.0344	1.132		-0.0331	
402		-0.0393					
497	-0.0370		-0.0327	-0.0167			
530		-0.0350					
585							-0.0316
600							
650					-0.0242		
700	-0.0364		-0.0350				
724					0.0200	-0.0161	
750							
760		0.0000	-0.0320	-0.0233			
775		0.431					
800							
834	-0.0333		-0.0333	-0.0233	-0.0282		
810		-0.0360					
837							
885	-0.0114						-0.0281
900	-0.0330		-0.0360	-0.0250			
901		-0.0362					
915			-0.0330		-0.0256		
916		-0.0370					

(REMB31)

DATE 19 FEB 75 TABULATED PRESSURE DATA - 3483  
 AMES 3 5-194 3483 310 RCS ON WING UPPER SURFACE

WING 11 6 3 200 ALPHA (1) 4 25 700  
 SECTION 11 UPPER WING DEPENDENT VARIABLE C<sub>p</sub>  
 X/Y 130 130 145 155 167 178 189

1 C  
 943 - 0371



DATE 10 FEB 77 TABULATED PRESSURE DATA - 0403

AMES 3 5-194 DABS 210 RCS JEP WING UPPER SURFACE (REMOVED) 1 20 AUG 74

# REFERENCE DATA

WING	1 11	1 20	ALPHA (1)	17 691	ANAL	3 279	0	2	0 001	P	2	.413	PT	2	30 000
WING	1 11	1 20	ALPHA (1)	17 691	ANAL	3 279	0	2	0 001	P	2	.413	PT	2	30 000

# PARAMETRIC DATA

BETA	1	0 000	ELEVON	1	0 000
BETA	1	0 000	ELEVON	1	0 000
AILRON	1	0 000	SPDR	1	0 000
RUDDER	1	0 000	SPDR	1	0 000

# DEPENDENT VARIABLE CP

WING	1 11	1 20	ALPHA (1)	17 691	ANAL	3 279	0	2	0 001	P	2	.413	PT	2	30 000
WING	1 11	1 20	ALPHA (1)	17 691	ANAL	3 279	0	2	0 001	P	2	.413	PT	2	30 000

W/C

WING	1 11	1 20	ALPHA (1)	17 691	ANAL	3 279	0	2	0 001	P	2	.413	PT	2	30 000
WING	1 11	1 20	ALPHA (1)	17 691	ANAL	3 279	0	2	0 001	P	2	.413	PT	2	30 000

DATE 10 FEB 75

TABLED PRESSURE DATA - 0403

PAGE 100

AMES 315-194 0403 110 515 OFF WING UPPER SURFACE

(REVISED)

NAME 1110 5 800 ALPHA (1) 17 001

SECTION 11 UPPER WING

DEPENDENT VARIABLE CP

11/0 .30 .30 .40 .55 .67 .74 .89

11/0

.005 - 0040



AMES 3 5-194 0403 010 RCS OFF WING UPPER SURFACE

(REWS33) ( 20 AUG 74 )

## REFERENCE DATA

## PARAMETRIC DATA

0000 2000 0000 34 FT ZMRP 2 0000 IN  
 0000 400 0000 IN ZMRP 2 0000 IN  
 0000 938 0000 IN ZMRP 2 0000 IN  
 SCALE 2 0192

BETA 2 0000 ELEVON 2 -0.000  
 AILERON 2 0000 SPOILER 2 0000  
 RUDDER 2 0000 DOFLAP 2 -11.700

MACH 1.11 3 3.200 ALPHA 1.11 2 21.308 RM/C 3 3.239 0 3 0.041 P 3 0.413 P1 3 303.300

## SECTION 1 UPPER WING DEPENDENT VARIABLE CP

Y/C	30	36	43	53	67	78	89
000	-0.0001	0.026	0.278	1.2343	7.001	7.909	6.965
020	-0.0026	-0.0026	-0.0026	0.1617	0.2103	0.1219	0.1007
040	-0.003	-0.0103	-0.0321	0.0904	0.0828	0.0397	0.0207
060	-0.003	-0.003	-0.003	0.0233			
080	-0.003	-0.003	-0.003				
100	-0.003	-0.003	-0.003				
120	-0.003	-0.003	-0.003				
140	-0.003	-0.003	-0.003				
160	-0.003	-0.003	-0.003				
180	-0.003	-0.003	-0.003				
200	-0.003	-0.003	-0.003				
220	-0.003	-0.003	-0.003				
240	-0.003	-0.003	-0.003				
260	-0.003	-0.003	-0.003				
280	-0.003	-0.003	-0.003				
300	-0.003	-0.003	-0.003				
320	-0.003	-0.003	-0.003				
340	-0.003	-0.003	-0.003				
360	-0.003	-0.003	-0.003				
380	-0.003	-0.003	-0.003				
400	-0.003	-0.003	-0.003				
420	-0.003	-0.003	-0.003				
440	-0.003	-0.003	-0.003				
460	-0.003	-0.003	-0.003				
480	-0.003	-0.003	-0.003				
500	-0.003	-0.003	-0.003				
520	-0.003	-0.003	-0.003				
540	-0.003	-0.003	-0.003				
560	-0.003	-0.003	-0.003				
580	-0.003	-0.003	-0.003				
600	-0.003	-0.003	-0.003				
620	-0.003	-0.003	-0.003				
640	-0.003	-0.003	-0.003				
660	-0.003	-0.003	-0.003				
680	-0.003	-0.003	-0.003				
700	-0.003	-0.003	-0.003				
720	-0.003	-0.003	-0.003				
740	-0.003	-0.003	-0.003				
760	-0.003	-0.003	-0.003				
780	-0.003	-0.003	-0.003				
800	-0.003	-0.003	-0.003				
820	-0.003	-0.003	-0.003				
840	-0.003	-0.003	-0.003				
860	-0.003	-0.003	-0.003				
880	-0.003	-0.003	-0.003				
900	-0.003	-0.003	-0.003				
920	-0.003	-0.003	-0.003				
940	-0.003	-0.003	-0.003				
960	-0.003	-0.003	-0.003				
980	-0.003	-0.003	-0.003				
1000	-0.003	-0.003	-0.003				

TABLE 10 PER 75

TABLE 10 PER 75

TABLE 10 PER 75

TABLE 10 PER 75

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TABLE 10 PER 75

TABLE 10 PER 75

TABLE 10 PER 75

TABLE 10 PER 75

TABLE 10 PER 75

TABLE 10 PER 75

TABLE 10 PER 75



### PARAMETRIC DATA

	DATE	TIME	LOCATION	STATUS	REMARKS
BETA	0.00	0.00	0.00	0.00	-0.000
ALPHA	0.00	0.00	0.00	0.00	-0.000
GAMMA	0.00	0.00	0.00	0.00	-0.000
DELTA	0.00	0.00	0.00	0.00	-0.000
EPSILON	0.00	0.00	0.00	0.00	-0.000
ZETA	0.00	0.00	0.00	0.00	-0.000
HETA	0.00	0.00	0.00	0.00	-0.000
THETA	0.00	0.00	0.00	0.00	-0.000
IOTA	0.00	0.00	0.00	0.00	-0.000
KAPPA	0.00	0.00	0.00	0.00	-0.000
LAMBDA	0.00	0.00	0.00	0.00	-0.000
MU	0.00	0.00	0.00	0.00	-0.000
NU	0.00	0.00	0.00	0.00	-0.000
Xi	0.00	0.00	0.00	0.00	-0.000
Omicron	0.00	0.00	0.00	0.00	-0.000
Pi	0.00	0.00	0.00	0.00	-0.000
RHO	0.00	0.00	0.00	0.00	-0.000
Sigma	0.00	0.00	0.00	0.00	-0.000
Tau	0.00	0.00	0.00	0.00	-0.000
Upsilon	0.00	0.00	0.00	0.00	-0.000
Phi	0.00	0.00	0.00	0.00	-0.000
Chi	0.00	0.00	0.00	0.00	-0.000
Psi	0.00	0.00	0.00	0.00	-0.000
Omega	0.00	0.00	0.00	0.00	-0.000

REFERENCE DATA

SECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
SECTION 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
SECTION 2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
SECTION 3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
SECTION 4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
SECTION 5	1	2	3	4																																																																																																

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DATE 10 FEB 75

TABULATED PRESSURE DATA - OARS

PAGE 100

AMES 3.5-194 OARS DID RCS OFF WING UPPER SURFACE

(REMOVED)

MACH (1) = 3.859 ALPHA (1) = 25.021

SECTION 1 UPPER WING

DEPENDENT VARIABLE Cp

2176 .30 .36 .43 .53 .67 .76 .89

1/2

1985 - 0401





DATE IS FEB 78 TABULATED PRESSURE DATA - 0483

AMES 3.3-194 0483 D10 RCS ON WING UPPER SURFACE (REMB55) ( 28 AUG 74 )

PARAMETRIC DATA

BETA = .000 ELEVON = -9.000  
 AILERON = .000 SPDBR = .000  
 RUDDER = .000 BDFLAP = 16.330

REFERENCE DATA

REF = 2698.0000 30-PT. HMRP = .0000 IN.  
 LREF = 474.0000 IN. YMRP = .0000 IN.  
 RREF = 936.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

MACH ( 3 ) = 3.250 ALPHA ( 3 ) = 17.700 RM/L = 3.410 0 = 7.848 P = .403 PT = 284.740

DEPENDENT VARIABLE CP

SECTION ( 1 ) UPPER WING

8776 .30 .43 .33 .87 .76 .89

47C

.000	-.0085	-.0035	.3681	1.3053	.6823	.8092	.7780
.020			.0228	.2542	.2705	.1794	.1620
.040		-.0388	-.0144				
.060	-.0347		.0991	.1235	.0785	.0668	
.080			.0582				
.081		-.0523					
.084		-.0293					
.094	-.0384			-.0115	.0639	.0301	.0019
.150		-.0342					
.163							
.177							
.229	-.0368						
.246		-.0379		-.0399	.3636	.0034	-.0187
.250							
.274				-.0389			
.362	-.0377						
.390		-.0391		-.0393	.3063		-.0311
.400							
.402				-.0382			
.497	-.0428			-.0399	-.0214		
.590				-.0383			
.603							
.630					-.0242		-.0286
.700	-.038-			-.0390	-.0270		
.725						-.0051	-.0236
.750							
.780			.1028	-.0392	-.0280		
.779			.3975				
.808							
.834	-.0380			-.0384	-.0278	-.0251	
.850							
.877			-.0358				
.883	-.0289						-.0253
.900	-.0384			-.0371	-.0271		
.903			-.0366				-.0255
.930				-.0381			
.933			-.0331				

DATE 15 FEB 73

TABULATED PRESSURE DATA - GA03

PAGE 170

ANES 3.3-194 GAO3 DID RCS ON WING UPPER SURFACE

(REWB33)

MACH 1.15    3.259    ALPHA (1) = 17.720

SECTION 11 UPPER WING    DEPENDENT VARIABLE OF

STATION    .35    .38    .43    .53    .67    .78    .89

LOC

965 - 0290



AMES 3-194 0493 OLD RCS ON WING UPPER SURFACE

(REVISION) (28 AUG 74)

## REFERENCE DATA

## PARAMETRIC DATA

SREF = 6600.000 IN. FT.    XMRP = .0000 IN.    BETA = .000    ELEVON = -.9.000  
 LREF = 474.0000 IN.    YMRP = .0000 IN.    AILRON = .000    SPDRK = .000  
 ORRP = 930.1000 IN.    ZMRP = .0000 IN.    RUDDER = .000    SDPLAP = 16.300  
 SCALE = .0150

MACH (1) = 5.280    ALPHA (1) = 21.313    RM/L = 3.329    Q = 7.908    P = .408    PT = 298.828

## SECTION 1 UPPER WING

## DEPENDENT VARIABLE CP

XY/Z    .50    .56    .63    .69    .76    .89

C/C

.000	-.0070	-.0043	.3396	-.2392	.6326	.7698	.7146
.020			.0073	.2053	.2382	.1427	.1273
.040		-.0415	-.0224				
.060	-.0369			.0709	.0980	.0547	.0444
.080				.0352			
.081			-.0369				
.084		-.0211					
.094	-.0382						
.110				-.0202	.0469	.0201	-.0094
.163		-.0374					
.177			-.0370				
.229	-.0411						
.246		-.0307					
.250				-.0379	.1545	-.0036	-.0247
.274			-.0354				
.362	-.0397						
.390		-.0358					
.400				-.0365	.2081		-.0283
.402			-.0352				
.497	-.0388			-.0355	-.0191		
.550			-.0382				
.565							
.620							
.630							
.700	-.0358						
.729				-.0334			
.750			.0994			.0185	-.0115
.760							
.775			.2081	-.0316	-.0226		
.808							
.834	-.0384						
.850				-.0305	-.0218	-.0195	
.897			-.0294				
.885	-.0205						
.900	-.0308			-.0291			-.0234
.905			.0261		-.0213		
.930				-.0278		-.0208	
.993			-.0279				

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DATE 19 FEB 75 TABULATED PRESSURE DATA - 0483

AMES 3-5-194 0483 010 RCS ON WING UPPER SURFACE (REWS7) ( 28 AUG 74 )

PARAMETRIC DATA

BETA 2 .000 ELEVOM 2 -5.000  
 ALTRON 2 .000 SPOBRK 2 .000  
 RJDOER 2 .000 BOFLAP 2 16.300

REFERENCE DATA

REF 1 2000.0000 30 FT. WARP 1 .0000 IN.  
 REF 2 474.0000 IN. WARP 2 .0000 IN.  
 REF 3 936.7000 IN. WARP 3 .0000 IN.  
 SCALE 1 .0150

MACH (.3) 5.000 ALPHA (.3) 25.700 RN/L 2 3.004 0 2 7.881 P 2 .407 PT 2 293.280

DEPENDENT VARIABLE CP

SECTION 1 UPPER WING

RYZ8 .30 .36 .43 .53 .67 .76 .89

R/C

000	-.0070	-.0055	.3070	1.1016	.7911	.7047	.6250
020		-.0076	.1466	1.944	.1142	.0854	
040		-.0440	-.0290	.0369	.0884	.0442	.0222
060	-.0360			.0126			
080				-.0403			
100		-.0326					
120	-.0412			-.0277	.0317	.0122	-.0187
140		-.0494					
160				-.0341			
180	-.0432						
200		-.0376		-.0308	.0740	-.0132	-.0311
220							
240	-.0423			-.0315			
260		-.0313					
280				-.0297	.1227		-.0350
300				-.0311			
320	-.0326			-.0292	-.0175		
340		-.0292					
360				-.0243			-.0320
380	-.0302						
400				-.0302	.0206	-.0172	
420							
440		-.1444		-.0307	-.0265		
460							
480		-.1648					
500	-.0333			-.0314	-.0266	-.0220	
520							
540		-.0322					
560	-.0077			-.0315			-.0283
580		-.0328					
600				-.0343	-.0270		
620				-.0314		-.0254	
640		-.0343					

DATE 10 FEB 75

TABULATED PRESSURE DATA - DAB3

PAGE 174

AMES 3 5-194 DAB3 010 RCS ON WING OVER SURFACE

(REF-837)

WING 100 5.899 ALPHA 10.0 23.750

REF 100 5.899 WING

DEPENDENT VARIABLE CA

27.0 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

0.000 0.003



DATE 10 FEB 75 TABULATED PRESSURE DATA - DABS

AMES 3 5-194 DABS 010 RLS OFF WING UPPER SURFACE (REMB38) ( 20 AUG 74 )

REFERENCE DATA

REF = 2000.0000 30 FT. XMRP = 0000 IN.  
 REF = 074.0000 IN. YMRP = 0000 IN.  
 REF = 010.0000 IN. ZMRP = 0000 IN.  
 SCALE = .0150

MACH ( 1 ) = 0.280 ALPHA ( 1 ) = 17.849 RM/L = 3.500 Q = 7.961 P = .411 PT = 200.920

PARAMETRIC DATA

BETA = .000 ELEVON = -3.000  
 ALCON = .000 SPDBRK = .000  
 RUDDER = .000 DOFLAP = 10.300

DEPENDENT VARIABLE CP

SECTION ( UPPER WING

REF/B .30 .35 .40 .45 .50 .55 .60 .65 .70 .75 .80 .85 .90 .95

0.00 -0.007 -0.034 -0.071 -0.108 -0.145 -0.182 -0.219 -0.256 -0.293 -0.330 -0.367 -0.404 -0.441

0.00 -0.007 -0.034 -0.071 -0.108 -0.145 -0.182 -0.219 -0.256 -0.293 -0.330 -0.367 -0.404 -0.441

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0.00 -0.007 -0.034 -0.071 -0.108 -0.145 -0.182 -0.219 -0.256 -0.293 -0.330 -0.367 -0.404 -0.441

0.00 -0.007 -0.034 -0.071 -0.108 -0.145 -0.182 -0.219 -0.256 -0.293 -0.330 -0.367 -0.404 -0.441

0.00 -0.007 -0.034 -0.071 -0.108 -0.145 -0.182 -0.219 -0.256 -0.293 -0.330 -0.367 -0.404 -0.441

0.00 -0.007 -0.034 -0.071 -0.108 -0.145 -0.182 -0.219 -0.256 -0.293 -0.330 -0.367 -0.404 -0.441

DATE 19 FEB 78

TABULATES PRESSURE DATA - 3403

PAGE 170

AMES 3.5-194 3403 310 RCS OFF WING UPPER SURFACE

4280301

TIME 1110 5.800 ALPHA 1.11 17.649

SECTION 1 UPPER WING DEPENDENT VARIABLE C<sub>D</sub>

REF 30 30 30 30 30 30 30 30 30 30

R/C

003 - 2370





DATE 10 PER 75 TABULATED PRESSURE DATA - DARS

AMES 3 5-164 DARS 210 RCS OFF WING UPPER SURFACE

REMOVED 1 20 AUG 74

REFERENCE DATA

WING 1 2000.0000 10 FT. WING 1 0000 IN. BETA 1 000 ELEVATION 1 -5.000  
 WING 2 476.0000 10 FT. WING 2 0000 IN. ALPHON 1 000 SPORER 1 000  
 WING 3 636.0000 10 FT. WING 3 0000 IN. RUDDER 1 000 BOFLAP 1 10.300  
 SCALE 1 0.133

PARAMETRIC DATA

MACH 1 1 0 2.200 ALPHA 1 1 0 21.507 RM/L 1 3.343 Q 1 7.952 P 1 0.413 PT 1 200.000

SECTION 1 UPPER WING DEPENDENT VARIABLE CP

8770 30 30 43 53 67 78 89

1/C

000 -0060 -0027 -0369 1.2369 0422 0741 0753  
 020 -0060 -0060 -0072 0260 1392 1260  
 040 -0421 -0239 0695 0952 0338 0442  
 060 -0377 0345  
 080 -0376  
 091 -0376  
 094 -0308 -0115  
 100 -0308 -0210 0473 0194 -0083  
 120 -0340  
 140 -0463  
 160 -0410  
 180 -0425 1057 -0049 -0251  
 200 -0449  
 220 -0414  
 240 -0440  
 260 -0446 1306 -0343  
 280 -0441  
 300 -0444  
 320 -0446 -0235  
 340 -0444  
 360 -0443  
 380 -0324  
 400 -0337  
 420 -0333  
 440 -0324  
 460 -0337  
 480 -0337  
 500 -0337  
 520 -0337  
 540 -0337  
 560 -0337  
 580 -0337  
 600 -0337  
 620 -0337  
 640 -0337  
 660 -0337  
 680 -0337  
 700 -0337  
 720 -0337  
 740 -0337  
 760 -0337  
 780 -0337  
 800 -0337  
 820 -0337  
 840 -0337  
 860 -0337  
 880 -0337  
 900 -0337  
 920 -0337  
 940 -0337  
 960 -0337  
 980 -0337  
 1000 -0337

DATE 19 FEB 78

LABORATORY PRESSURE DATA - 0485

PAGE 176

AMES 3.5-134 DABS 317 RCS 177 WING UPPER 5 W/AVE

INCHES

WING 100.0 1.260 ALPHA (1) 21.307

SECTION 0000 WING

DEPENDENT VARIABLE 02

TYPE 30 30 43 53 67 74 89

1.000 1.000



**7-94 OAS CIG 455 JCS WING COVER SURFACE**

V A C J U N I O N

[illegible]

# PARAMETRIC DATA

ERTA	.000	ELEVOM	-1.000
ALLROM	.000	SPOOR	.300
BUDDER	.000	BOPLA	10.100



## DEPENDENT VARIABLE: CP

gum blacked in methyl

100

30

000	- .0087	- .0028	.0083	1.0013	.7973	.7101	.0235
100			-.0007	.1818	.1915	.1124	.0000
200			-.0439	-.0311			
300	- .0390			.0370	.0078	.0437	.0220
400				.0118			
500			-. .0413				
600			-. .0294				
700	- .0422			-. .0206	.0293	.0000	-. .0189
800			-. .0418				
900			-. .0400				
000	- .0437						
100			-. .0433				
200			-. .0440		.0330	-. .0130	-. .0313
300	- .0403			-. .0430	.0023		-. .0336
400			-. .0433				
500	- .0430			-. .0430	-. .0230		
600			-. .0433			-. .0322	-. .0340
700	- .0436			-. .0424			
800						.0204	-. .0109
900							
000			.1170	-. .0413	-. .0343		
100			.1182				
200			-. .0380	-. .0606	-. .0340	-. .0201	
300	- .0432						
400							
500	.0000			-. .0394			-. .0307
600	- .0410			-. .0360	-. .0347		
700				-. .0300		-. .0313	
800			-. .0391				
900							

WE-1001

WIND AERO PRESSURE DATA

AMES 15 194 1045 200 600 100 1000 1000 1000 1000

WIND 1000 1000 1000 1000 1000 1000 1000 1000

WIND 1000 1000 1000 1000 1000 1000 1000 1000

WIND 1000 1000 1000 1000 1000 1000 1000 1000

WIND 1000 1000 1000 1000 1000 1000 1000 1000



DATE 19 FEB 75 TABULATED PRESSURE DATA - DAB3

AMES 315-194 DAB3 510 ACS ON LOWER LEFT MPS NOZ (RENC01) 1 20 AUG 74 1

REFERENCE DATA

REF	1	2000.0000	10	PT	2	2000	ELEVOM	1	1.830
REF	2	474.0000	10	IN	2	2000	ALLCOM	2	.030
REF	3	916.0000	10	IN	2	2000	RJDER	2	-11.730
SCALE	0	.0135							

PARAMETRIC DATA

MACM	(1)	10.200	ALPHA	(1)	29	816	RM/L	2	1.830	0	2	2.330	2	.032	PT	2	1775.300
------	-----	--------	-------	-----	----	-----	------	---	-------	---	---	-------	---	------	----	---	----------

DEPENDENT VARIABLE CP

SECTION 1 11MPS NOZ

2/0 .20 .50

PMI	.000	.0500	.0617
45.000	.0602	.0344	
90.000	.0126	.0135	
135.000	.0048	.0044	
180.000	.0033	.0033	
215.000	.0040	.0460	

ABSOLUTE PRESSURE DATA - 0483

AMES 3 5 19 1483 010 RT'S ON LOWER LEFT WAS NOT

REFERENCE DATA									
STEP	1	2	3	4	5	6	7	8	9
TIME	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
TEMP	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
WGT	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SCALE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
ALPHA	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
BETA	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
DATA	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

DEPENDENT VARIABLE CP

SECTION	1	2	3	4	5	6	7	8	9
TIME	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
TEMP	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
WGT	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SCALE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
ALPHA	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
BETA	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
DATA	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000



AMES 3.3-194 0A83 DID RCS ON LOWER LEFT MPS NOZ (REWCDS) ( 20 AUG 74 )

## REFERENCE DATA

SREF = 2600.0000 30 FT ZMRP = .0000 IN.  
 LREF = 474.8000 IN. TMRP = .0000 IN.  
 SREF = 936.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0130

## PARAMETRIC DATA

BETA = .000 ELEVOM = 1.000  
 ALLROM = .000 SPDBRK = .000  
 RUDDER = .000 BOFLAP = -13.700

VACH ( 1 ) = 10.290 ALPHA ( 1 ) = 37.771 RM/L = 1.900 Q = 2.442 P = .033 PT = 1802.360

## DEPENDENT VARIABLE CP

SECTION ( 1 ) MPS NOZ

X/O .20 .30

PMI

.000 .0600 .0769  
 49.000 .1164 .1027  
 90.000 .0234 .0235  
 139.000 .0117 .0121  
 180.000 .0097 .0090  
 315.000 .0702 .0711

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TABULATED PRESSURE DATA - 0483

DATE 11 FEB 79

IREMCD40 1 26 100 74 1

AMES 3.5-194 0483 010 RCS OFF LOWER LEFT NO. NOZ

PARAMETRIC DATA

BETA = 1.000 ELEVDM = 1.000  
 ALIGN = 1.000 STUBRA = 1.000  
 RUDDER = 1.000 BDFLAG = -11.750

REFERENCE DATA

REF 1 2421 0000 30 IN. XMRP = 1.0000 IN.  
 REF 2 2424 0000 10 IN. YMRP = 1.0000 IN.  
 REF 3 2426 0000 10 IN. ZMRP = 1.0000 IN.  
 SCALE = 0150

MACH 11 10.000 ALPHA (1) = 29.611 CN/L = 1.863 Q = 2.197 P = 1.032 PT = 1713.950

DEPENDENT VARIABLE CP

SECTION 1 10005 NOZ

X/O .20 .50

PM1  
 .000 .0026 .0444  
 45.000 .0041 .0093  
 90.000 .0014 .0037  
 135.000 .0023 .0027  
 180.000 .0022 .0025  
 315.000 .0023 .0021





DATE 19 728 Y3

TABULATED PRESSURE DATA - 0083

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AMES 3.3-194 DADS 310 RCS OFF LOWER LEFT MPS NO2 (REMCBS) ( 28 AUG 74 )

# REFERENCE DATA

XREF = 2890.0000 38 FT XMRP = .0000 IN.  
 YREF = 474.0000 IN. YMRP = .0000 IN.  
 ZREF = 938.0000 IN. ZMRP = .0000 IN.  
 SCALE = 0150

# PARAMETRIC DATA

BETA = .000 ELEVOM = 1.000  
 ALLRDM = .000 SPDRBK = .000  
 RUDDER = .000 BDFLAP = -11.700

MACH ( 1 ) = 10.280 ALPHA ( 1 ) = 33.722 RM/L = 1.709 Q = 2.373 P = .032 PY = 1774.330

# DEPENDENT VARIABLE CP

SECTION ( 1 ) MPS NO2

X/O .20 .50

# PMI

.000 .0012 .0418  
 48.000 .0041 .0075  
 90.000 -.0010 .0018  
 138.000 .0005 .0009  
 186.000 .0007 .0008  
 234.000 .0015 .0003

DATE 14 FEB 75

TABULATED PRESSURE DATA - 0483

PAGE 1

AMES N 3-194 0483 010 R15 OFF LOWES EST M 3 NOZ

REFERENCE DATA

CRP 1 1455 0000 30 FT ZMRP 1 10000 IN  
 CRP 2 14 0000 IN ZMRP 2 10000 IN  
 CRP 3 118 7000 IN ZMRP 3 10100 IN  
 SCALE 1 0100

WICH 1 1 10 290 ALPHA 1 10 37 758

SECTION 1 LUMPS NOZ

X/D 120 130

PM1  
 1000 0104 0482  
 45 000 0126 0136  
 90 000 0113 0077  
 135 000 0098 0072  
 180 000 0081 0066  
 215 000 0132 0077

DEPENDENT VARIABLE CP

RVCL 1 1.936 0 2.441 0

BETA 1 1.033 0

PT 1 1802.500

PARAMETRIC DATA

BETA 1 1.000 ELEVON 1 1.000  
 ALTRON 1 1.000 SPDR 1 1.000  
 R 00ER 1 1.000 BUFLAR 1 -11.700



FABRICATED PRESSURE DATA - DABS

DATE 10 FEB 75

RENC071 1 20 AUG 74 1

AMES 3 5-194 DABS 510 RCS ON LOWER LEFT MPS 502

PARAMETRIC DATA

REF 1 1000.0000 33 FT 148P 2 0000 IN 0000 IN BETA 2 -2.000 ELEVON 4 1.000  
 REF 2 474.0000 IN 148P 2 0000 IN 0000 IN ATILCON 2 1.000 SPDRK 2 000  
 REF 3 916.0000 IN 248P 2 0000 IN 0000 IN SUDDER 2 1.000 SDFLAP 2 -11.000  
 SCALE 2 0150

WACH (1) 1 10.890 ALPHA (1) 1 29.644 RM/L 1 1.756 Q 2 2.301 P 1 .032 PT 1 1774.088

DEPENDENT VARIABLE CP

SECTION (1) MPS 502

R70 20 .50

PM1  
 .000 .0472 .0591  
 45.000 .0720 .0374  
 90.000 .0119 .0144  
 135.000 .0053 .0051  
 180.000 .0029 .0035  
 215.000 .0489 .0463

AMES 315-194 DASH 310 RYS DN LOWER LEFT MPS NOZ

PREMIDB 1 1 20 416 24 1

## REFERENCE DATA

3483 1 1000 0000 30 FT 4MBP 1 3000 IN  
 3483 1 1000 0000 30 FT 4MBP 1 3000 IN  
 3483 1 1000 0000 30 FT 4MBP 1 3000 IN  
 3483 1 1000 0000 30 FT 4MBP 1 3000 IN  
 3483 1 1000 0000 30 FT 4MBP 1 3000 IN

3483 1 1000 0000 30 FT 4MBP 1 3000 IN 35.740 1.831 0 2.420 0 1.033 PT 1768.100

## SECTION 1 1000 30 FT

## DEPENDENT VARIABLE CP

100 20 30

1000 0454 10825  
 45.000 0523 10718  
 90.000 0572 10600  
 135.000 0618 10480  
 180.000 0649 10364  
 215.000 0662 10253

## PARAMETRIC DATA

BETA 1 12.000 ELEVATION 1 1.000  
 ALPHA 1 1.000 SPREAD 1 0.000  
 HOOVER 1 1.000 BDF 1 1 11.100



TAB. A120 PRESSURE DATA - 0483

AMES 3.5-194 0483 510 675 DM LOWER LEFT MPS 402 (REMOVED) 1 28 AUG 74

PARAMETRIC DATA

BETA = -2.000 ELEVON = 1.000  
 AILERON = .000 SPOILER = .000  
 RUDDER = .000 BOFLAP = -11.700

REFERENCE DATA

REF = 2000 0000 50 FT WHP = .0000 IN.  
 REF = 474.8000 IN WHP = .0000 IN.  
 REF = 936.7000 IN WHP = .0000 IN.  
 SCALE = .0150

WING (11) = 19.290 ALPHA (11) = 37.611 RM/L = 1.905 Q = 2.433 P = .033 PT = 1030.948

DEPENDENT VARIABLE CP

SECTION 1 11MPS 402

W/D .120 .50

PHI  
 .000 .0660 .0761  
 45.000 .1091 .1058  
 90.000 .0209 .0225  
 135.000 .0108 .0105  
 180.000 .0089 .0081  
 315.000 .0680 .0695

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED



DATE 10 FEB 75 TABULATED PRESSURE DATA 0483

AMES 3.9-194 0483 010 RCS OFF POWER EFT MPS M02 (RENC11) 1 28 AUG 74 1

REFERENCE DATA				PARAMETRIC DATA			
REF 1	2000	0000	10 FT	TEMP 1	0000 IN	BETA 1	-2.00
REF 2	470	0000	IN	TEMP 2	0000 IN	ALPHA 1	1.000
REF 3	930	0000	IN	TEMP 3	0000 IN	RODGR 1	1.000
REF 4	0100	0100				RODGR 2	1.000
						RODGR 3	1.000
						RODGR 4	1.000
						RODGR 5	1.000
						RODGR 6	1.000
						RODGR 7	1.000
						RODGR 8	1.000
						RODGR 9	1.000
						RODGR 10	1.000
						RODGR 11	1.000
						RODGR 12	1.000
						RODGR 13	1.000
						RODGR 14	1.000
						RODGR 15	1.000
						RODGR 16	1.000
						RODGR 17	1.000
						RODGR 18	1.000
						RODGR 19	1.000
						RODGR 20	1.000
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						RODGR 31	1.000
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						RODGR 96	1.000
						RODGR 97	1.000
						RODGR 98	1.000
						RODGR 99	1.000
						RODGR 100	1.000

DEPENDENT VARIABLE CP

SECTION 1	TEMP M02
100	0.00
200	0.00
300	0.00
400	0.00
500	0.00
600	0.00
700	0.00
800	0.00
900	0.00
1000	0.00
1100	0.00
1200	0.00
1300	0.00
1400	0.00
1500	0.00
1600	0.00
1700	0.00
1800	0.00
1900	0.00
2000	0.00
2100	0.00
2200	0.00
2300	0.00
2400	0.00
2500	0.00
2600	0.00
2700	0.00
2800	0.00
2900	0.00
3000	0.00
3100	0.00
3200	0.00
3300	0.00
3400	0.00
3500	0.00
3600	0.00
3700	0.00
3800	0.00
3900	0.00
4000	0.00
4100	0.00
4200	0.00
4300	0.00
4400	0.00
4500	0.00
4600	0.00
4700	0.00
4800	0.00
4900	0.00
5000	0.00
5100	0.00
5200	0.00
5300	0.00
5400	0.00
5500	0.00
5600	0.00
5700	0.00
5800	0.00
5900	0.00
6000	0.00
6100	0.00
6200	0.00
6300	0.00
6400	0.00
6500	0.00
6600	0.00
6700	0.00
6800	0.00
6900	0.00
7000	0.00
7100	0.00
7200	0.00
7300	0.00
7400	0.00
7500	0.00
7600	0.00
7700	0.00
7800	0.00
7900	0.00
8000	0.00
8100	0.00
8200	0.00
8300	0.00
8400	0.00
8500	0.00
8600	0.00
8700	0.00
8800	0.00
8900	0.00
9000	0.00
9100	0.00
9200	0.00
9300	0.00
9400	0.00
9500	0.00
9600	0.00
9700	0.00
9800	0.00
9900	0.00
10000	0.00





DATE 15 FEB 71 CALCULATED PRESSURE DATA - 0403

AMPS 3 54184 0403 110 KTS ON LOWER LEFT MPS NOT

REFERENCE DATA

1000	1000 0000 10 FT	1000	1000	BETA	1000	1000	1000
1000	1000 0000 10 FT	1000	1000	ALPHA	1000	1000	1000
1000	1000 0000 10 FT	1000	1000	BUDDER	1000	1000	1000
1000	1000 0000 10 FT	1000	1000				

WIND 110 KTS 10 290 ALPHA 110 KTS 10 290 BETA 1000 1000

SECTION 1 110PS NOT DEPENDENT VARIABLE CP

110 20 110

PMI

000	0001	0011
000	0020	0043
000	0081	0085
110 000	0171	0176
100 000	0183	0180
110 000	0240	0269

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[illegible]

# PARAMETRIC DATA

[illegible]

CONFIDENTIAL

DATE	CD	NAME
01	01	000 000
02	02	000 000
03	03	000 000
04	04	000 000
05	05	000 000
06	06	000 000
07	07	000 000
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95	95	000 000
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97	97	000 000
98	98	000 000
99	99	000 000
100	100	000 000



DATE 10 FEB 75 TABULATED PRESSURE DATA - DAB3

AMPS 3.8-194 DAB3 010 RCS OFF LOWER LEFT MPS NOZ (REWC37, ( 24 AUG 74 )

REFERENCE DATA

XSEP = 2890.0000 IN. PT XSEP = 0.0000 IN. ELEVON = 1.000  
 XSEP = 474.0000 IN. XSEP = 0.0000 IN. SPDRK = 0.000  
 XSEP = 936.7000 IN. XSEP = 0.0000 IN. RUDDER = -11.700  
 SCALE = .0150

MACM ( 1 ) = 10.890 ALPHA ( 1 ) = 33.737 RM/L = 1.817 Q = 2.421 P = .033 PT = 1600.679

DEPENDENT VARIABLE CP

SECTION ( 1 ) MPS NOZ

X/D	.20	.30
PMI		
000	-.0187	.0164
45.000	-.0158	-.0130
90.000	-.0184	-.0162
135.000	-.0185	-.0166
180.000	-.0178	-.0160
315.000	-.0167	-.0176

PARAMETRIC DATA

BETA = 0.000 ELEVON = 1.000  
 ALLCON = 0.000 SPDRK = 0.000  
 RUDDER = 0.000 BOFLAP = -11.700

TABULATED PRESSURE DATA - 0483

DATE 19 75

AMES 5.5-194 5483 510 RGS OFF LOWER LEFT MOUNT

INCHES) ( 28 64 71 3

REFERENCE DATA

TEMP 1 10 5000 58 FT 4MRP 3 10000 IN.  
 REF 1 174 4000 IN. 4MRP 3 10000 IN.  
 REF 1 916 7000 IN. 4MRP 3 10000 IN.  
 SCA 1 1 0.150

WASH ( 1) 1 10 390 ALPHA ( 1) = 37.765 RM/L = 1.969 Q = 2.443 P = .033 PT = 1002.580

DEPENDENT VARIABLE CP

SECTION ( 1) 1000 50

X/D .120 50

PMI  
 .000 -.0139 -.0186  
 45.000 -.0123 -.0096  
 90.000 -.0100 -.0147  
 135.000 -.0149 -.0147  
 180.000 -.0136 -.0134  
 225.000 -.0113 -.0141

PARAMETRIC DATA

BETA 3 2.000 ELEVON 3 1.000  
 ALLRON 3 1.000 SPOLAR 3 1.000  
 RUDER 3 1.000 ROR 40 3 -11.700



DATE 10 FEB 75 TABULATED PRESSURE DATA - 0483

AMES 1 5-194 0483 D10 RCS ON LOWER LEFT MPS NOZ (REWC19) 1 20 AUG 74 1

REFERENCE DATA

AREA = 2692.0000 10. FT XMRP = .0000 IN.  
 AREA = 474.8000 IN. XMRP = .0000 IN.  
 AREA = 516.7000 IN. XMRP = .0000 IN.  
 SCALE = .0190

PARAMETRIC DATA

WACH (1) = 10.290 ALPHA (1) = 29.710 RN/L = 1.056 Q = 2.426 P = .033 PT = 1800.000  
 BETA = .000 ELEVOM = 4.000  
 AILROM = .000 SPDRK = .000  
 RUDDER = .000 BOFLAP = 16.300

SECTION (1) MPS NOZ DEPENDENT VARIABLE CP

X/O .20 .30

PMI  
 .000 .0230 .0371  
 45.000 .0073 .0119  
 90.000 .0004 .0025  
 135.000 -.0010 -.0003  
 180.000 -.0002 -.0023  
 315.000 .0425 .0300

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REF 3 5-194 3483 010 RCS DN 10MER SET MFS 402      10F020      20 1 1 74 1

REFERENCE DATA

REF 1	1450 0000 30 PT	EMEP 1	0000 IN.	SETA 1	0000	000000 1	40000
REF 2	1450 0000 1M	EMEP 2	0000 IN.	ALLRN 2	0000	340000 1	0000
REF 3	1450 0000 1M	ZMER 1	0000 IN.	WATER 3	0000	000 10 1	10 300
SCALE 1	0.050						

PARAMETRIC DATA

WACH	10 1	10 200	ALPHA 1 10 1	33 405	QNT 1	1.483	Q	2.344	P	0.032	PT	1803.030
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SECTION 1 LUMPS MDZ

DEPENDENT VARIABLE CP

170	1.82	.50
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PMI

000	.0388	.0330
45 000	.0193	.0182
90 000	.0176	.0088
135 000	.0085	.0079
180 000	.0043	.0067
315 000	.0048	.0098





DATE 10 FEB 75 TABULATED PRESSURE DATA - 0482

(RENCER) ( 20 AUG 74 )

AMES 3 3-194 0483 510 R/S IN LOWER LEFT WDS N37

REFERENCE DATA  
REF 1 2000 0000 50 FT ZWER 1 0000 IN  
REF 2 474 0000 IN ZWER 2 0000 IN  
REF 3 036 7000 IN ZWER 3 0000 IN  
SCALE 1 00192  
WACH ( 1 ) 1 10 200 ALPHA 11 1 37.782 RM/L 1 1.007 Q 1 2.426 P 2 .033 PT 1 1799.110

PARAMETRIC DATA

BETA 1 0000 ELEVOM 1 4.000  
AILRON 1 0000 SPDBRA 1 0.000  
RUDDER 1 0000 BOFLAP 1 18.300

SECTION 1 11MPS N37  
DEPENDENT VARIABLE CP

PMI	000	0412	0494
45 000	0253	0192	
90 000	0076	0064	
135 000	0042	0049	
180 000	0034	0021	
215 000	0000	0000	



DATE 10 FEB 75 TABULATED PRESSURE DATA - 0483

AMES 3 5-154 0483 010 R'S OFF LOWER LEFT MPS NOZ (REWC23) 1 28 AUG 74 3

REFERENCE DATA

REF 1	2000 0000 30 FT	REF 1	0000 IN	BETA 1	000	ELEVOM 1	41.000
REF 2	476 0000 IN	REF 2	0000 IN	AT 10M 1	0000	SPOBNA 1	0.000
REF 3	436 0000 IN	REF 3	0000 IN	RUDDER 1	0000	BOFLAP 1	18.300
SCALE 1	0.1						

WACH 1 11 5 10 800 ALPHA (1) 1 33 631 RN/L 1 1 432 Q 1 2 357 P 1 032 PT 1 1004.000

SECTION 1 11MPS NOZ DEPENDENT VARIABLE CP

V/D PD 150

PMI

000	0077	0133
45 000	0535	0108
95 000	0125	0081
135 000	0077	0073
185 000	0050	0081
235 000	0081	0074

RECEIPTS		DATE		AMOUNT	
1890	Jan 1	1890	Jan 1	100.00	100.00
1890	Feb 1	1890	Feb 1	50.00	150.00
1890	Mar 1	1890	Mar 1	25.00	175.00
1890	Apr 1	1890	Apr 1	12.50	187.50
1890	May 1	1890	May 1	6.25	193.75
1890	Jun 1	1890	Jun 1	3.12	196.87
1890	Jul 1	1890	Jul 1	1.56	198.43
1890	Aug 1	1890	Aug 1	.78	199.21
1890	Sep 1	1890	Sep 1	.39	199.60
1890	Oct 1	1890	Oct 1	.19	199.79
1890	Nov 1	1890	Nov 1	.09	200.00
1890	Dec 1	1890	Dec 1	.00	200.00
1890	Total	1890	Total	200.00	200.00

EXPENDITURES		DATE		AMOUNT	
1890	Jan 1	1890	Jan 1	100.00	100.00
1890	Feb 1	1890	Feb 1	50.00	150.00
1890	Mar 1	1890	Mar 1	25.00	175.00
1890	Apr 1	1890	Apr 1	12.50	187.50
1890	May 1	1890	May 1	6.25	193.75
1890	Jun 1	1890	Jun 1	3.12	196.87
1890	Jul 1	1890	Jul 1	1.56	198.43
1890	Aug 1	1890	Aug 1	.78	199.21
1890	Sep 1	1890	Sep 1	.39	199.60
1890	Oct 1	1890	Oct 1	.19	199.79
1890	Nov 1	1890	Nov 1	.09	200.00
1890	Dec 1	1890	Dec 1	.00	200.00
1890	Total	1890	Total	200.00	200.00



TABLED PRESSURE DATA - CASE

AMES 3 104 0461 105 870 04 LOWER EPT 405 5 7

DIFFERENTIAL DATA

AMES 3 104 0461 105 870 04 LOWER EPT 405 5 7  
 AMES 3 104 0461 105 870 04 LOWER EPT 405 5 7  
 AMES 3 104 0461 105 870 04 LOWER EPT 405 5 7  
 AMES 3 104 0461 105 870 04 LOWER EPT 405 5 7

PARAMETRIC DATA

AMES 3 104 0461 105 870 04 LOWER EPT 405 5 7  
 AMES 3 104 0461 105 870 04 LOWER EPT 405 5 7  
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DEPENDENT VARIABLE CP

AMES 3 104 0461 105 870 04 LOWER EPT 405 5 7  
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LABORATORY PRESSURE DATA - 0483

AMES 3 5 194 0483 310 675 348 LOWER LEFT HPS N 2

PARAMETRIC DATA

0000 1 000 0000 30 00 0000 1 000 0000 30 00 0000 1 000 0000 30 00  
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TABULATED PRESSURE DATA - 0483

DATE 15 FEB 75

(RUMC31) ( 28 AUG 74 )

AMES 3.9-194 0435 010 RCS ON LOWER LEFT NPS NOZ

REFERENCE DATA				PARAMETRIC DATA			
SMRP = 2000.0000 IN.	SMRP = 10000 IN.	BETA = 2.000	ELEVON = 1.000				
LMRP = 474.8000 IN.	LMRP = 10000 IN.	ALURON = 1.000	SPOORE = 1.000				
GRFP = 936.7000 IN.	GRFP = 10000 IN.	RJDDER = 1.000	BOFLAP = 13.300				
SCALE = .0150							
MACH ( 1 ) = 10.890	ALPHA ( 1 ) = 7.746	RN/L = 1.924	Q = 2.465	P = .033	PT = 1024.500		

DEPENDENT VARIABLE CP

SECTION ( 1 ) NPS NOZ

X/D	.80	.50
PH		
.000	.0334	.0447
45.000	.0139	.0193
90.000	.0074	.0087
135.000	.0038	.0065
180.000	.0033	.0070
219.000	.0462	.0375

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DATE 19 FEB 75 TABULAR PRESSURE DATA - DARS

AMS 3.5-194 DARS DIG RCS OFF LOWER LEFT MPS NOZ (PENCSS) ( 20 AUG 74 )

REFERENCE DATA

REF 1 2000 0000 30 FT KMAP 2 0000 IN.  
REF 2 474 0000 IN. KMAP 2 0000 IN.  
REF 3 938 7000 IN. KMAP 2 0000 IN.  
SCALE 2 0150

PARAMETRIC DATA

BETA 2 2.000 ELEVOM 2 4.000  
ALCORN 2 0.000 SPOBRK 2 0.000  
RJODER 2 0.000 BOFLAP 2 18.300

MACH ( 1 ) 10.890 ALPHA ( 1 ) 53.756 RM/L 1.935 Q 2.435 P .033 PT 1700.270

DEPENDENT VARIABLE CP

SECTION ( 1 ) MPS NOZ

1/0 .20 .50

PMI  
000 .0027 .0439  
45.000 0304 .0136  
90.000 .0069 .0057  
135.000 .0036 .0032  
180.000 .0019 .0015  
315.000 .0017 .0017





DATE 10 FEB 75 TABULATED PRESSURE DATA - 0403

AMES 3 5-155 DAB3 01J HOS ON LOWER LEFT MPS NOZ (REWC31) 1 28 AUG 74 1

REFERENCE DATA

REF 1	2000 0000 50 PT	THRP 2	0000 IN.	BETA 2	0000	ELEVON 2	-9.000
REF 2	474 0000 IN	THRP 2	0000 IN.	ALTRON 2	000	SPORNA 2	0000
REF 3	930 0000 IN.	THRP 2	0000 IN.	RUDDER 2	0000	BOELAP 2	-11.700
SCA 2	0190						

MACH (1) 1 7 320 ALPHA (1) 2 25.775 R4/L 2 9.411 0 2 12.020 P 2 0320 PT 2 1795.020

SECTION 1 11MPS NOZ DEPENDENT VARIABLE CP

1/0	.20	.50
PHI		
000	0240	0256
45 000	0017	-0039
90 000	-0060	-0113
135 000	-0161	-0179
180 000	-0160	-0184
215 000	0262	0264

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TABULATED PRESSURE DATA - DAB3

DATE 5 OCT 75

AMES 3-154 DAB3 J10 RCS ON LOWER LEFT MPS NOZ

(REWC34)

20 AUG 74

REFERENCE DATA

REF 1 2000 0000 50 71 1MRP 1 0000 IN. BETA 1 0000 ELEVON 1 -6 000  
 REF 2 474 0000 1M 1MRP 2 0000 IN. AILERON 1 0000 SPDBRK 1 0000  
 REF 3 936 7000 1M 2MRP 3 0000 IN. RUDDER 1 0000 BOFLAP 1 -11.700  
 SCA 1 0.152

PARAMETRIC DATA

MACM 1 11 7.320 ALPHA (1) 1 31.815 RN/L 1 0.173 0 1 0.939 P 1 0.238 PT 1 1387.840

DEPENDENT VARIABLE CP

SECTION 1 11MPS NOZ

RCS 1 20 0.50

PM1  
 000 0438 0446  
 45 000 0800 0090  
 90 000 0123 0059  
 135 000 0134 0118  
 180 000 0187 0176  
 219 000 0340 0404

WINDS 5 30194 405 405 KTS OFF CENTER 1000 FT MSL

REFERENCE DATA

WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT
WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT
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WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT

WIND 10 7 320 ALPHA 10 25 740 RND 10 7 375 0 11.931 10 310 PT 11.931.000

WIND 10 7 320

DEPENDENT VARIABLE C0

WIND 10 7 320

WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT
WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT
WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT
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WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT	WIND	7000 0000 30 FT



DATE 10 FEB 75 TABULATED PRESSURE DATA - J0483

AMES 315-194 0402 100 HRS DEPT 1000 LEFT MES NO2

INFORMED 1 20 AUG 74

REFERENCE DATA

1000	+	2000	0000	10	PT	1000	+	0000	IN	BETA	+	0.0	E	EVON	+	10.000
1000	+	474	0000	10	IN	1000	+	0000	IN	ALUMIN	+	00	+	507864	+	000
1000	+	938	0000	10	IN	1000	+	0000	IN	WJOSER	+	1000	+	0000	+	11.700
1000	+	0192														

PARAMETRIC DATA

WACH	+	11	+	7	380	ALPHA	+	11	+	27	010	RMSE	+	7	909	Q	+	11	910	P	+	0	319	PT	+	1795	300
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SECTION 1 LUMPS NO2 DEPENDENT VARIABLE CP

170		80		90
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PMI		000	-0.0194	-0.0197	
		000	0.010	-0.0100	
		000	-0.0136	-0.0177	
		139	000	-0.0174	-0.0189
		180	000	-0.0187	-0.0188
		319	000	-0.0192	-0.0194



DATE IN FOR TS

UNIT 3 3-194 DATA DISC WTS ON LOWER LEFT WPS M02

INW0434

1 20 AUG 74 1

REFERENCE DATA

REF 1	0000 0000 10 FT	TEMP 1	0000 IN	SECT 1	000	ELEVOM 1	1.0000
REF 2	474 0000 IN	TEMP 2	0100 IN	SECT 2	0000	SP088K 1	1.0000
REF 3	930 0000 IN	TEMP 3	00000 IN	SECT 3	0000	BOGAP 1	11.000
REF 4	0100						

PARAMETRIC DATA

WPM 1	10 1	7.380	ALPHA 1	11 1	23.730	RM/L 1	9.797	Q 1	12.053	P 1	1.321	PT 1	1767.780
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SECTION 1 LUMPS M02

DEPENDENT VARIABLE CP

WPS	80	150
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PHI

000	1.0000	1.0026
99 000	1.0119	1.0130
90 000	1.0163	1.0180
135 000	1.0187	1.0189
160 000	1.0163	1.0160
115 000	1.0121	1.0050

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OF 2000 PAGES

(HEMCK4) 1 28 AUG 74 1

AMES 3.5-194 0-03 010 RCS ON LOWER LEFT MPS NO2

PARAMETRIC DATA

XREF 1 0000 0000 50.00 ZMRP = 0.000 IN. BETA = 0.000 ELEVON = 1.000  
 XREF 2 0000 0000 100.00 ZMRP = 0.000 IN. ALRON = 0.000 SPBRA = 0.000  
 XREF 3 0000 0000 150.00 ZMRP = 0.000 IN. RUDDER = 0.000 BDFAP = 10.000  
 SCALE = 0.0130

MACH 0.113 ALPHA (1) = 27.034 RNYL = 7.141 Q = 11.044 P = 0.316 PT = 1790.970

SECTION 1 BUMPS NO2

X/D 20 30

PHI  
 0.000 -0.0023 -0.0014  
 45.000 -0.0036 -0.0019  
 90.000 -0.0132 -0.0130  
 135.000 -0.0146 -0.0136  
 180.000 -0.0159 -0.0160  
 315.000 -0.0265 -0.0134





TABULATED PRESSURE DATA - 0003

DATE 13 FEB 75

(REWCAS) (28 AUG 74 1

AMES 3.5-194 0A85 010 RCS DN LOWER LEFT HPS NOT

REFERENCE DATA

REF 1 2000.0000 SQ FT XMRP = .0000 IN  
 REF 2 474.8000 IN. YMRP = .0000 IN  
 REF 3 938.7000 IN. ZMRP = .0000 IN  
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = 1.000  
 AILERON = .000 SPDBRK = .000  
 RUDDER = .000 SDFLAP = 16.300

MACH (1) = 7.320 ALPHA (1) = 31.879 RM/L = 7.461 Q = 11.869 P = .310 PT = 1793.800

DEPENDENT VARIABLE CP

SECTION (1) HPS MOZ

X/D .20 .50

PMI

.000 .0091 .0029  
 45.000 -.0021 .0024  
 90.000 -.0135 -.0107  
 135.000 -.0143 -.0148  
 180.000 -.0146 -.0160  
 315.000 .0307 .0236



DATE 14 JUL 75 TABULATED PRESSURE DATA - OARS

ANES 3.5-194 OARS OLD RCS OFF LOWER LEFT MPS 402 (RENC47) ( 28 JUL 74 )

REFERENCE DATA

REF 1 2000.000 IN. XMRP 2 0.0000 IN. BETA 2 1.000 ELEVON 2 1.000  
 REF 2 474.0000 IN. YMRP 2 0.0000 IN. AILRON 2 1.000 SPOBRK 2 1.000  
 REF 3 936.7000 IN. ZMRP 2 0.0000 IN. RUDDER 2 0.300  
 SCALE 2 0.0150

PARAMETRIC DATA

MACH ( 1 ) 2 7.320 ALPHA ( 1 ) 2 27.60% RM/L 2 0.400 Q 2 11.929 P 2 0.510 PT 2 1791.010

DEPENDENT VARIABLE CP

SECTION ( 1 ) MPS NOZ

X/O 20 0.50

PMI  
 000 -0.0222 -0.0175  
 45.000 -0.532 -0.0203  
 90.000 -0.0156 -0.0169  
 135.000 -0.0189 -0.0196  
 180.000 -0.0196 -0.0196  
 215.000 -0.0206 -0.0209

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FLUTTER PRESSURE DATA - 3483

AME 3 9-194 DATA DID RCS OFF LOWER LEFT WRS NOZ (RSC48) 1 10 10 10 10

REFERENCE DATA

REF 1 10 000 IN. 1000 IN. 1000 IN.  
 REF 2 10 000 IN. 1000 IN. 1000 IN.  
 REF 3 10 000 IN. 1000 IN. 1000 IN.  
 REF 4 10 000 IN. 1000 IN. 1000 IN.

REF 5 10 000 IN. 1000 IN. 1000 IN.

SECTION 1 WRS NOZ

470 120 150

PHI  
 1000 -0.0210 -0.0195  
 45.000 -0.1297 -0.0176  
 90.000 -0.0121 -0.0180  
 135.000 -0.0175 -0.0178  
 180.000 -0.0176 -0.0177  
 315.000 -0.0179 -0.0187

PARAMETRIC DATA

BETA = 1.000 ELEVON = 1.000  
 AILERON = 1.000 SPOILER = 1.000  
 RUDDER = 1.000 BOFLAP = 1.000

11.908 P 1.317 H 1795.130

DEPENDENT VARIABLE CP



DATE 19 FEB 75 TABULATED PRESSURE DATA - 0483

ARF 3.5-134 3463 310 PCS ON LOWER LEFT MPS NOZ (REWC49) ( 20 AUG 74 )

REFERENCE DATA

REF 1 2000 0000 30.75 INRP 2 0000 IN BETA 2 .000 ELEVON 2 -8.000  
 REF 2 474 0000 14. INRP 3 0000 IN. AILERON 2 .000 SPOBRK 2 .000  
 REF 3 538 7000 14. INRP 4 0000 IN. RUDDER 2 .000 BDFLAP 2 -11.700  
 STA 1 0190

MACH ( 1 ) 2 5.260 ALPHA ( 1 ) 2 17.678 RN/L 2 3.502 Q 2 7.925 P 2 .409 PT 2 297.460

DEPENDENT VARIABLE CP

SECTION 1 11MPS NOZ

X/D .20 .50

PHI  
 .000 - 0152 -0202  
 45 000 - 0369 -0385  
 90 000 - 0418 -0420  
 135 000 - 0424 -0432  
 180 000 -0417 -0435  
 315 000 - 0349 - 0123

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DATE 14 APR 75 TABULATED PRESSURE DATA - DABS

WPS 3.3-134 DABS D10 RCS ON DMEW LEFT WPS NO2 (REWC51) ( 28 AUG 74 )

REFERENCE DATA

WPS 1 2000 0000 30 FT WPS 2 0000 IN.  
WPS 3 474 0000 IN. WPS 4 0000 IN.  
WPS 5 030 7000 IN. WPS 6 0000 IN.  
WPS 7 0150

PARAMETRIC DATA

BETA 2 0.000 ELEVON 2 0.000  
ALCON 2 0.000 SPOBR 2 0.000  
RUDDER 2 0.000 DOFLAP 2 0.000

MACH 1 1.1 5.280 ALPHA ( 1 ) 25.756 EN/C 5.280 Q 7.987 P 0.412 PT 301.110

DEPENDENT VARIABLE CP

SECTION 1 11WPS NO2

Z/O .20 .50

PMI

0.000 -0.0020 -0.0040  
45.000 -0.0030 -0.0145  
90.000 -0.0393 -0.0394  
135.000 -0.0400 -0.0409  
180.000 -0.0408 -0.0405  
315.000 -0.0009 -0.0004













DATE 10 FEB 75

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AMES 3.5-194 OARS OLD RCS OFF LOWER LEFT MPS NOZ

REFWCSB) ( 28 10 74 1

REFERENCE DATA

REFP 1 1000.000 33.171 TREF 1 10000 IN.  
 LREF 1 100.000 10.000 TREF 2 10000 IN.  
 RREF 1 100.000 10.000 TREF 3 10000 IN.  
 SCALE 1 0.150

WICH ( 1 ) 1 5.260 ALPHA ( 1 ) 1 17.649

PT 1 200 920

SECTION: 1 10000 NOZ

DEPENDENT VARIABLE CP

X/D 1 20 30

PHI  
 000 -0.0482 -0.0387  
 49.000 0086 -0.0239  
 90.000 -0.0197 -0.0161  
 139.000 -0.0118 -0.0090  
 180.000 -0.0197 -0.0400  
 319.000 -0.0408 -0.0412

PARAMETRIC DATA

BETA 1 1000 ELEVON 1 -1.000  
 AILRON 1 1000 SPEEDRK 1 1.000  
 RUDDER 1 1000 BOFLAP 1 10.300

PT 1 200 920



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W14: 22M2032:

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DATE	TIME	LOCATION	WIND	TEMP	SEA	REMARKS
1964-01-15	10:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-15	11:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-15	12:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-15	13:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-15	14:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-15	15:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-15	16:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-15	17:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-15	18:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-15	19:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-15	20:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-15	21:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-15	22:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-15	23:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	00:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	01:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	02:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	03:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	04:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	05:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	06:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	07:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	08:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	09:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	10:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	11:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	12:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	13:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	14:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	15:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	16:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	17:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	18:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	19:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	20:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	21:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	22:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-16	23:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-17	00:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-17	01:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-17	02:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-17	03:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-17	04:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-17	05:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-17	06:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-17	07:00	100-105	10-15	50-55	1-2	Cloudy
1964-01-17	08:00	100-105	10-15	50-55		

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SECTION 1 TIME 402
DEPENDENT VARIABLE CP
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55.	58.	612
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4. 7.	1990	1991	1992	1993	1994
1. 000	1. 000	1. 000	1. 000	1. 000	1. 000
45. 000	45. 000	45. 000	45. 000	45. 000	45. 000
5. 000	5. 000	5. 000	5. 000	5. 000	5. 000
15. 000	15. 000	15. 000	15. 000	15. 000	15. 000
40. 000	40. 000	40. 000	40. 000	40. 000	40. 000
5. 000	5. 000	5. 000	5. 000	5. 000	5. 000

CREWED. 1 20 AUG 79

AMES 3.5-194 0483 015 R75 OFF LOWER LEFT MPS NO2

REFERENCE DATA

SERP 1 1590 0000 10.0 FT    CMRP 1 10000 IN.    BETA 1 1.000    ELEVON 1 1.000  
 SERP 2 174.0000 IN.    TMRP 2 10000 IN.    ALURON 1 1.000    SPDRK 1 1.000  
 SERP 3 936.7000 IN.    ZMRP 3 10000 IN.    RUDDER 1 18.300  
 SCALE 1 1.000

MACH (1) 1 5.280    ALPHA (1) 1 23.793    R/V/L 1 3.233    Q 1 7.966    P 1 .411    PT 1 300.200

SECTION 1 11MPS NO2    DEPENDENT VARIABLE CP

X/D    .20    .30

CMI  
 1.000 -0.0397 -0.0352  
 2.000 -0.0119 -0.0343  
 3.000 -0.0110 -0.0185  
 4.000 -0.0345 -0.0370  
 5.000 -0.0364 -0.0392  
 6.000 -0.0335 -0.0400











AMES 3.3-194 0403 010 RCS OFF FUSELAGE SURFACE

(REMOVED) 1 26 AUG 74

## REFERENCE DATA

REF 1 2000.0000 50. FT. THRP 1 .0000 IN. BETA 1 .0000 ELEVON 1 1.0000  
 REF 2 474.0000 IN. THRP 1 .0000 IN. AILRON 1 .0000 SPOORA 1 .0000  
 REF 3 516.0000 IN. THRP 1 .0000 IN. RUDDER 1 .0000 BOE AP 1 -11.700  
 REF 4 .0190

MACH 1 10 200 ALPHA 1 11 2 29.611 RM/L 1 1.863 Q 1 2.397 P 1 .032 PT 1 1773.938

## SECTION 1: FUSELAGE

## DEPENDENT VARIABLE CP

X	350.00	400.00	450.00	500.00	550.00	625.00	725.00	760.60	792.80	800.00	900.00	999.00	936.10	980.00	990.20
PM1	7648	1371	1289	0885	0469	0194									
65.000				0846	0474	0092									
67.000															
70.000	1192	1306	1250	0806	0462	0166									
73.000	1075	1197	1129												
80.000	0910	1025	1108	0725	0412	0143									
82.500				1585	0890	0412	0140								
85.000				0778	0636										
120.000	0742	0734													

10 1070.00 1080.00 1125.10 1160.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

## PM1

50.000															
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55.000															
60.000															
64.000															
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AMES 3.5-194 0483 OLD RCS OFF FUSELAGE SURFACE

(REWD12) ( 20 AUG 74 )

## REFERENCE DATA

REF X 2630.0000 30. FT. YMRP Z .0000 IN.  
 REF X 474.0000 IN. YMRP Z .0000 IN.  
 REF X 936.0000 IN. YMRP Z .0000 IN.  
 SCALE Z .0150

## PARAMETRIC DATA

BETA Z -2.000 ELEVON Z 1.000  
 AILRON Z .000 SPDBRA Z .000  
 RUDDER Z .000 BDFLAP Z -11.700

MACM ( 1 ) Z 10.290 ALPHA ( 1 ) Z 37.004 RN/L Z 1.907 Q Z 2.435 P Z .033 PT Z 1802.290

## SECTION ( 1 ) FUSELAGE

DEPENDENT VARIABLE C<sub>D</sub>

HO	350.00	400.00	450.00	500.00	550.00	625.00	725.00	760.60	792.80	800.00	880.00	899.90	936.10	980.00	990.20
PMI															
60.000	.7583	.5334	.1266	.1139	.0731	.0340									
65.000				.1128	.0738	.0351	.0241								
67.000								.0147		.0234	.0217		.0063		.9163
70.000	.0847	.1210	.1210	.1112	.0725	.0673	.0326			.0195	.0074				.0384
75.000	.0839	.1060	.1182												
80.000	.0521	.0744	.1103	.1036	.0681	.0633	.0354			.0300	.0081				.0069
82.500								.0420				.3333			.0064
85.000				.0950	.1003	.0693	.0631			.0411	.0155				.0066
90.000	.0373	.0472	.0793												
120.000	.0296	.0300													

HO	1078.00	1080.00	1123.10	1180.00	1245.00	1300.00	1339.00	1369.00	1374.00	1375.00	1379.00	1430.00	1480.00
PMI													
50.000						.1147				.0052		.0098	.0114
51.500							.0050				.0067		
55.000						.0121				.0057		.0068	.0065
60.000						.0067				.0065		.6865	.0072
64.000							.0067						
65.000	.0091			.0066	.0080	.0143				.0076		.0248	.0065
67.000	.0096												
68.000									.0065				
70.000	.0064			.0081	.0071	.0078				.0057		.3465	.0062
80.000	.0092			.0066	.0071	.0060				.0077		.0267	.0066
82.500		.0066											
85.000	.0068			.0079									
90.000						.0067				.0074		.0093	.0066
100.000				.0084		.0084				.0073		.1481	.1142
120.000				.0108						.0075		.0176	.0165
140.000				.0156						.0084		.0058	.0090
150.000				.0069						.0037		.0409	.0067



REFERENCE DATA

[illegible]

### PARAMETRIC DATA

DETA	2.000	ELEVON	1.000
AILRON	.000	SPOBR	.020
RUDDER	.000	BUFLAP	-11.700

ALPHA ( ) = 29.735

1008.400

SECTION 117 USELAGE

DEPENDENT VARIABLE CP

DATE	DESCRIPTION	AMOUNT	BALANCE
1950-01-01	OPENING BALANCE	100.00	100.00
1950-01-15	PAYROLL	25.00	75.00
1950-01-30	RENT	15.00	60.00
1950-02-15	SALES	30.00	90.00
1950-02-28	CLOSING BALANCE	90.00	90.00

1

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2
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	0	1	2	3	4	5	6	7	8	9															
1074	00	1080	00	1124	00	1167	00	1245	00	1322	00	1339	00	1369	00	1374	00	1375	00	1379	00	1430	00	1460	00

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[illegible]

## AMES 3-5-194 0483 010 RCS ON FUSELAGE SURFACE

NEW014) ( 22 2 5 14 1

## REFERENCE DATA

REF = 2000.0000 30-PT. ZMRP = .0000 IN.  
 LREF = 475.0000 IN. YMRP = .0000 IN.  
 RREF = 938.0000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

## PARAMETRIC DATA

BETA = 2.000 ELEVON = 1.000  
 AILERON = .000 SPOILER = .000  
 RUDDER = .000 BOFLAP = -11.700

MACW ( 1 ) = 10.290 ALPHA ( 1 ) = 33.689 RN/L = 1.930 0 = 2.439 P = .033 PT = 1003.270

## SECTION 1: FUSELAGE

## DEPENDENT VARIABLE CP

X 350.00 400.00 450.00 500.00 550.00 600.00 625.00 725.00 760.60 792.80 800.00 860.00 898.90 938.10 960.00 990.20

## PMI

60.000 1.0130 .0800 .0659 .0575 .0229 -.0046  
 65.000 .0549 .0239 .0061 -.0107  
 67.000  
 70.000 .0375 .0843 .0616 .0545 .0229 .0151 -.0053  
 75.000 .0159 .0510 .0590  
 80.000 .0030 .0264 .0524 .0402 .0201 .0142 .0038  
 82.500  
 85.000 .0412 .0465 .0212 .0157 .0091  
 90.000 -.0076 -.0002 .0149  
 120.000 -.0069 -.0081

X 1076.00 1080.00 1125.10 1180.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

## PMI

90.000  
 91.000  
 95.000  
 96.000  
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DATE 18 FEB 73  
 (REF015) 28 AUG 74 1

TABULATED PRESSURE DATA - QAB3  
 AXES 3.5-194 QAB3 QID RCS ON FUSELAGE SURFACE

PARAMETRIC DATA

BETA = 2.000 ELEVOM = 1.000  
 AILROM = .000 SPOBRK = .000  
 RUOGER = .000 BOFLAP = -11.700

REFERENCE DATA

REF = 2000 0000 10. FT. XMRP = .0000 IN.  
 LREF = 474.8000 IN. YMRP = .0000 IN.  
 ZREF = 930.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

MACH (1) = 10.290 ALPHA (1) = 37.775 RN/L = 1.931 0 = 2.436 P = .033 PT = 1082 248

DEPENDENT VARIABLE CP

SECTION (1) FUSELAGE

40 330.00 400.00 450.00 500.00 550.00 600.00 650.00 700.00 750.00 800.00 850.00 900.00 950.00 1000.00

PM1  
 85.000 1.2177 .0829 .0722 .0606 .0279 -.0038  
 86.000 .0600 .0294 .0079 -.0073  
 87.000  
 88.000 .0360 .0707 .0650 .0394 .0288 .0187 -.0039  
 89.000 .0183 .0339 .0669  
 90.000 .0043 .0293 .0601 .0356 .0259 .0215 .0043  
 91.000  
 92.000 .0495 .0327 .0269 .0209 .0104  
 93.000 .0078 .0015  
 94.000 .0057 -.0095

50 1078.00 1080.00 1125.00 1140.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1420.00

PM1  
 95.000  
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AMES 3.5-194 OAB3 010 RCS OFF FUSELAGE SURFACE

(RENO10) ( 20 AUG 74 )

## REFERENCE DATA

REF = 1000.0000 20. FT.    XMRP = .0000 IN.  
 LREF = 474.0000 IN.    YMRP = .0000 IN.  
 SREF = 938.7000 IN.    ZMRP = .0000 IN.  
 SCALE = .0150

## PARAMETRIC DATA

BETA = 2.000    ELEVOM = 1.000  
 ALLEON = .000    SPOBRK = .000  
 RUDDER = .000    BOFLAP = -11.700

MACH ( 1 ) = 10.200    ALPHA ( 1 ) = 37.700    RW/L = 1.909    Q = 2.443    P = .033    PT = 1002.800

## SECTION ( 1 ) FUSELAGE

## DEPENDENT VARIABLE CP

X    390.00    400.00    450.00    500.00    550.00    600.00    625.00    725.00    760.00    792.00    800.00    880.00    890.90    936.10    980.00    990.20

## PHI

00.000    1.5075    0.042    .0750    .0836    .0297    -.0015  
 05.000    .0615    .0296    .0084    -.0090  
 07.000    -.0084  
 70.000    .0367    .0724    0710    .0601    .0262    .0196    -.0022  
 75.000    .0166    .0375    .0805  
 80.000    .0057    .0305    .0568    .0272    .0232    .0068  
 82.500    1.3943  
 85.000    .0516    .0531    .0254    .0200    .0148  
 90.000    -.0058    .0046    .0273  
 100.000    -.0050    -.0075

.0099    .0026    1.2676  
 -.0116    -.0153    .0355  
 -.0069    -.0150    -.0155  
 -.0017    -.0151    .0769  
 .0149

X    1070.00    1080.00    1123.10    1180.00    1245.00    1300.00    1339.00    1374.00    1375.00    1379.00    1430.00    1460.00

## PHI

10.000    .0664  
 11.000    -.0166  
 15.000    -.0114  
 20.000    -.0155  
 24.000    -.0163  
 25.000    -.0107    -.0113    -.0060  
 27.000    -.0174  
 29.000    -.0170  
 30.000    -.0163  
 35.000    -.0168  
 39.000    -.0159  
 40.000    -.0156  
 100.000    -.0161  
 120.000    -.0152  
 140.000    -.0156  
 150.000    -.0166

-.0169    -.0150    -.0120    -.0100  
 -.0167    -.0123    -.0150  
 -.0166    1.3527    -.0173  
 -.0159    .0043    -.0161  
 -.0142    .0948    -.0165  
 -.0164    .0021    -.0170  
 -.0177    -.0145    .0162  
 -.0165    1.950    1.503  
 -.0142    -.0006    .0009  
 -.0132    -.0143    -.0123  
 -.0164    .0531    -.0159

(REMOVED) (20 AUG 74)

AMES 3 5-54 0485 310 RCS ON FUSELAGE SURFACE

REFERENCE DATA

REF 1 1000.0000 10 FT WHP = 1000 IN. BETA = .000 ELEVON = 4.000  
 REF 2 475.0000 10 WHP = 1000 IN. AILRON = .000 SPDRCK = .000  
 REF 3 930.0000 10 WHP = 1000 IN. RUDDER = .000 BOFLAP = 10.300  
 SCALE = .0150

PARAMETRIC DATA

MACH (1) = 10.290 ALPHA (1) = 20.710 RW/L = 1.036 Q = 2.426 P = .033 PT = 1000.000

SECTION (1) FUSELAGE DEPENDENT VARIABLE CP

NO	350.00	400.00	450.00	500.00	550.00	600.00	625.00	650.00	700.00	750.00	780.00	792.00	803.00	850.00	899.90	936.10	990.00	990.20
PMT																		
90.000	3243	1130	1011	0810	0409	0133												
95.000				0768	0417	0292	0047											
97.000																		
100.000	0815	0993	0949	0786	0412	0320	0115											
105.000	0805	0800	0911															
110.000	0555	0641	0830	0673	0577	0300	0307											
115.000																		
120.000	0365	0419	0730	0639	0360	0305	0335											
125.000	0326	0309																

1070.00 1000.00 1125.10 1180.00 1245.00 1300.00 1333.00 1369.00 1374.00 1379.00 1379.00 1430.00 1480.00

PMT

90.000																		
95.000																		
97.000																		
100.000																		
105.000																		
110.000																		
115.000																		
120.000																		
125.000																		
130.000																		
135.000																		
140.000																		
145.000																		
150.000																		

AM'S 3.5-194 0483 010 RCS ON FUSELAGE SURFACE

(REMOVED) (28 AUG 74)

## REFERENCE DATA

REF = 0000-9000 50 FT. ZMRP = .0000 IM.  
 REF = 074-6600 IM. ZMRP = .0000 IM.  
 REF = 930-7000 IM. ZMRP = .0000 IM.  
 SCALE = .0150

MACH (1) = 10.290 ALPHA (1) = 33.665 RM/L = 1.485 0 = 2.384 P = .037 PT = 5003.838

## PARAMETRIC DATA

BETA = .000 ELE ON = 4.088  
 ALLRON = .000 SPOBR = .000  
 RUDDER = .000 SOFLAP = 18.308

## SECTION (1) FUSELAGE

## DEPENDENT VARIABLE CP

NO	350.00	400.00	450.00	500.00	550.00	625.00	725.00	760.00	792.80	800.00	880.00	899.90	938.10	980.00	990.20
PMI															
60.000	.1859	.1103	.1049	.909	.0617	.0300				.0233	.0219			.0196	
65.000				.0984	.0631	.0459	.0212		.0112				.0110		
67.000														.0110	
70.000	.0884	.1012	.1003	.0930	.0620	.0341	.0303			.0200	.0103			.0334	
75.000	.0482	.0489	.0980												
80.000	.0344	.0381	.0877	.0904	.0592	.0319	.0450			.0240	.0343			.0142	
82.500							.0316					.0278			.0123
85.000			.0780	.0833	.0583	.0321	.0503			.0303	.0113			.0126	
90.000	.0159	.0297	.0304												
100.000	.0147	.0143													

NO 1078.00 1080.00 1123.10 1180.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

## PMI

NO	1078.00	1080.00	1123.10	1180.00	1245.00	1300.00	1339.00	1369.00	1374.00	1375.00	1379.00	1430.00	1480.00
60.000						.0303		.0106		.0110	.0128	.0038	.0312
61.000													
65.000						.0110			.0100			.0039	.0110
66.000						.0164			.0110			.0040	.0073
64.000							.0140						
65.000		.0241	.0141	.0156	.0161			.0130				.0050	.0056
67.000	.0134												
68.000								.0113					
70.000		.0146	.0178	.0213	.0097			.0094		.0147	.0068		
80.000		.0121	.0131	.0146	.0131			.0139		.0196	.0067		
82.500			.0130										
85.000		.0456	.0141										
90.000					.0130			.0103		.0088	.0086		
100.000				.0119	.0119			.0117		.0031	.0037		
105.000				.0112	.0112			.0083		.0132	.0162		
120.000				.0139	.0139			.0126		.0076	.0096		
130.000				.0069	.0069			.0169		.0156	.0084		



AMES 3-5-184 DABS 010 RCS OFF FUSELAGE SURFACE

(REMOVED) 1 28 A 1 74 )

## REFERENCE DATA

REF P = 1000.0000 IN. H<sub>2</sub>O Z = .0000 IN.  
 REF P = 474.0000 IN. H<sub>2</sub>O Z = .0000 IN.  
 REF P = 930.7000 IN. H<sub>2</sub>O Z = .0000 IN.  
 SCALE = 0.150

## PARAMETRIC DATA

BETA = .000 ELEVOM = 4.000  
 ALLROM = .000 SPOBRK = .000  
 RUDDER = .000 ROFLAP = 10.300

WACH (1) = 10.290 ALPHA (1) = 20.730 RN/L = 1.039 Q = 2.423 P = .033 PF = 179 .910

## SECTION 1 FUSELAGE

## DEPENDENT VARIABLE CP

X 350.00 400.00 450.00 500.00 550.00 600.00 625.00 725.00 760.00 792.00 800.00 880.00 930.00 980.00 990.00

## PMI

00.000	3308	.1184	.1043	.0851	.0423	.0149								
25.000				.0796	.0430	.0320	.0051							
50.000								.0084		.0063	.0117		.0084	
75.000	.0856	.1041	.0968	.0756	.0408	.0320	.0120		.0014	.0019		.0084		
100.000	.0673	.0910	.0930											
125.000	.0560	.0686	.0873	.0692	.0386	.0316	.0310		.0107	.0029		.0014		
150.000							.0713				.0370		.0029	
175.000			.0766	.0829	.0369	.0312	.0338		.0184	.0029		.0032		
200.000	.0410	.0470	.0392											
225.000	.0361	.0333												

X 1070.00 1080.00 1123.10 1180.00 1245.00 1300.00 1339.00 1369.00 1374.00 1379.00 1379.00 1430.00 1480.00

## PMI

00.000				.1111		.0012		.0032	.0087				
25.000					.0003		.0013			.0017	.0003		
50.000				.0068		.0010		.0054	.0023				
75.000				.0026									
100.000					.0002								
125.000	.0549		.0021	.0003	.0114		.0027	.0108	.0039				
150.000	.0013												
175.000													
200.000	.0034		.0057	.0027	.0027		.0002	.0426	.0010				
225.000	.0001		.0078	.0013	.0023		.0020	.0037	.0013				
250.000		.0016											
275.000	.0003		.0009										
300.000				.0013			.0018	.0001	.0034				
325.000				.0027			.0007	.0730	.0017				
350.000				.0013			.0011	.0074	.0042				
375.000				.0033			.0064	.0013	.0016				
400.000				.0001			.0025	.0028	.0001				







(REMOVED) ( 28 AUG 74 )

AMES 1-1-1-1 0A83 010 RCS ON FUSELAGE SURFACE

REFERENCE DATA

WACP = 2000.0000 10.71. ZMRP = .0000 IN.  
 ZMRP = 474.0000 IN. YMRP = .0000 IN.  
 ZMRP = 238.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

PARAMETRIC DATA

BETA = -2.000 ELEVON = 4.000  
 AILERON = .000 SPOILER = .000  
 RUDDER = .000 BOFLAP = 16.300

MACH ( 1 ) = 10.200 ALPHA ( 1 ) = 29.733 RM/L = 1.002 Q = 2.412 P = .033 PT = 1777.640

DEPENDENT VARIABLE CP

SECTION ( 1 ) FUSELAGE

XC 350.00 400.00 450.00 500.00 550.00 600.00 625.00 725.00 780.00 792.00 800.00 820.00 899.90 938.10 980.00 990.20

PHI  
 60.000 .0570 .1331 .1203 .1044 .0597 .0264  
 65.000 .0500 .1020 .0605 .0498 .0139  
 67.000 .0897 .1178 .1148 .0973 .0585 .0471 .0245  
 70.000 .0672 .1032 .1084  
 75.000 .0584 .0771 .1006 .0883 .0328 .0433 .0506  
 80.000 .0888 .0239 .014 .0458 .0462  
 85.000 .0383 .0482  
 90.000 .0302 .0319  
 120.000

XC 1070.00 1080.00 1125.10 1160.00 1244.00 1300.00 1339.00 1359.00 1374.00 1375.00 1379.00 1430.00 1480.00

PHI  
 90.000 .0746 .0170 .0181 .0174 .0191 .0467  
 95.000 .0159 .0143 .0115 .0226  
 98.000 .0170 .0174 .0031 .0164  
 104.000 .0186  
 105.000 .0205 .0206 .0193 .0222 .0278 .0114  
 107.000 .0164  
 108.000 .0136 .0169 .0168 .0200 .0189  
 110.000 .0166 .0160 .0174 .0177 .0170 .0093 .0092  
 112.000 .0190  
 113.000 .0168 .0179 .0127 .0077  
 114.000 .0171 .0181 .0089 .0692  
 115.000 .0160 .0164 .0162 .0170  
 116.000 .0126 .0075 .0083  
 117.000 .0067 .0035 .0347 .0370

AMES 3.5-194 OASD OIO RCS ON FUSELAGE SURFACE

(REMOVED) (20 AUG 74)

## REFERENCE DATA

SHEP = 2600.0000 50.00 IN. XMRP = .0000 IN.  
 LREF = 475.0000 IN. YMRP = .0000 IN.  
 SHEP = 536.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

## PARAMETRIC DATA

BETA = -2.000 ELEVON = 4.000  
 AILRON = .000 SPOBRK = .000  
 RUDDER = .000 DOFLAP = 10.300

MACH (1) = 10.290 ALPHA (1) = 33.924 RW/L = 1.900 Q = 2.431 P = .033 PT = 1709.818

## SECTION (1) FUSELAGE

## DEPENDENT VARIABLE CP

NO	350.00	400.00	450.00	500.00	550.00	625.00	725.00	780.00	792.80	800.00	850.00	899.90	938.10	980.00	990.00
PMI															
60.000	.0471	.1370	.1275	.1078	.0644	.0288									
65.000				.1058	.0649	.0494	.0188			.0198	.0208			.3875	
67.000								.0170				.0132			
70.000	.0944	.1230	.1218	.1020	.0636	.0533	.0260			.0146	.0113			.0255	
75.000	.0748	.1092	.1186												
80.000	.0838	.0844	.1113	.0940	.0590	.0518	.0499			.0220	.0097			.0115	
82.500								.0151				.1449			.0189
85.000			.1007	.0903	.0582	.0519	.0555			.0315	.0089			.0168	
90.000	.0482	.0391	.0778												
120.000	.0421	.0430													

NO 1070.00 1080.00 1123.10 1180.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

## PMI

50.000						.0744			.0119		.0121	.0336			
51.000							.0107			.0125					
55.000						.0135			.0107	.0090	.0104				
60.000						.0175			.0138	.0275	.0049				
64.000							.0134								
65.000	.0138		.0134	.0148	.0199				.0149	.0233	.0045				
67.000	.0156														
68.000															
70.000	.0166		.0164	.0120	.0134				.0111	.1424	.0056				
80.000	.0151		.0142	.0144	.0130				.0140	.0130	.0055				
82.500		.0163													
85.000	.0158			.0119					.0166	.0089	.0063				
90.000					.0162				.0191	.1246	.0096				
100.000					.0136				.0086	.0156	.0163				
120.000					.0138				.0084	.0057	.0068				
140.000					.0023				.0039	.0347	.0058				
150.000					.0049										



19 FEB 1957 ( 28 AUG 70 )

PARAMETRIC DATA

BETA	=	-2.000	ELEVON	=	4.000
AILRON	=	.000	SPOBRK	=	.000
RUDDER	=	.000	BDFLAP	=	10.300

REFERENCE DATA

[illegible]

ALPHA ( ) = 37.349  
R N/L 1.301

SECTION (1) FUSELAGE

SECTION ( 1 ) FUSELAGE

[illegible][illegible][illegible]

ANES 3.3-194 OAB3 010 RCS OFF FUSELAGE SURFACE

(REMOVED) ( 28 AUG 74 )

## REFERENCE DATA

XREF = 8890.0000 30. FT. XMRP = .0000 IN.  
 YREF = 774.8000 IN. YMRP = .0000 IN.  
 ZREF = 936.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

## PARAMETRIC DATA

SETA = -2.000 ELEVON = 4.000  
 AILERON = .000 SPOILER = .000  
 RUDDER = .000 BOFIAP = 10.300

MACH ( 1 ) = 10.890 ALPHA ( ) = 29.730 RN/L = 1.924 Q = 2.407 P = .032 PT = 1777.870

## SECTION ( 1 ) FUSELAGE

## DEPENDENT VARIABLE CP

XO 350.00 400.00 450.00 500.00 550.00 600.00 625.00 725.00 760.00 792.00 800.00 860.00 899.90 936.10 980.00 990.20

## PHI

60.000	.0139	.1340	.1240	.1071	.0609	.0282									
65.000				.1020	.0000	.0305	.0147								
67.000								.0124	.0250				.0087	1.0410	
70.000	.0904	.1220	.1103	.0992	.0391	.0471	.0263	.0171							
75.000	.0707	.1055	.1115					.0105	.0071					.0448	
80.000	.0563	.0800	.1031	.0909	.0539	.0474	.0507	.0269	.0139					.0088	
82.500								.0662							
85.000	.0366	.0522	.0705	.0639	.0506	.0454	.0472	.0385	.0193			.3328		.0080	
90.000															
120.000	.0332	.0345												.0093	

XO 1078.00 1080.00 1123.10 1180.00 124.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

## PHI

90.000					.0661				.0019		.0045	.0103
91.000						.0045				.0051		
95.000					.0101				.0031		.0037	.0075
96.000					.0035				.0025		.7133	.0967
97.000						.0061						
97.000	.0071			.0054	.0044	.0137			.0034		.0322	.0063
98.000	.0070											
98.000												
98.000	.0089			.0037	.0082	.0040			.0060		.4147	.0068
98.000	.0044			.0047	.0068	.0056			.0091		.0214	.0064
98.500		.0032										
99.000	.0044			.0060								
99.000					.0054				.0038		.0099	.0072
100.000					.0069				.0066		.1114	.0868
120.000					.0000				.0244		.0249	.0179
140.000					.0544				.0102		.0087	.0071
150.000					.0145				.0064		.0354	.0064



AMES 3.5-194 0403 010 RCS OFF FUSELAGE SURFACE

(REMOVED) (28 AUG 74)

## REFERENCE DATA

REF = 3000.0000 30. FT. ZMRP = .0000 IN.  
 CRF = 474.0000 IN. YMRP = .0000 IN.  
 BRP = 516.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

## PARAMETRIC DATA

BETA = -2.000 ELEVOM = 4.000  
 ALLROM = .000 SPOBRK = .000  
 RUDDER = .000 BOPLAP = 16.300

MACH (1) = 10.890 ALPHA (1) = 37.030 RW/C = 1.000 Q = 2.460 P = .033 PT = 1023.000

## SECTION (1) FUSELAGE

## DEPENDENT VARIABLE CP

XO	350.00	400.00	450.00	500.00	550.00	625.00	725.00	760.60	792.80	800.00	860.00	899.40	936.10	960.00	990.20	
PHI																
60.000	.7412	.1350	.1201	.1117	.0737	.0308										
65.000				.1110	.0710	.0214										
67.000									.0135	.0191	.0183				.9990	
70.000	.0632	.1203	.1232	.1081	.0697	.0640	.0209						.0037			
75.000	.0631	.1065	.1180							.0181	.0021				.0310	
80.000	.0515	.0770	.1124	.1016	.0657	.0598	.0326			.0275	.0081				.0044	
82.500								.0192								
85.000			.0998	.0972	.0655	.0593	.0601			.0388	.0121		.3216		.0086	
90.000	.0364	.0504	.0726												.0032	
120.000	.0330	.0342														

XO 1076.00 1080.00 1123.10 1160.00 1245.00 1300.00 1336.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

## PHI

50.000					.0621					.0029		.0060	.0117			
51.000						.0061					.0054					
55.000					.0070					.0039		.0081	.0088			
60.000					.0044					.0041		.8694	.0065			
64.000							.0055									
65.000	.0067			.0049	.0058	.0132				.0033		.0238	.0037			
67.000	.0037															
68.000									.0047							
70.000	.0041			.0036	.0041	.0070				.0043		.4003	.0067			
80.000	.0056			.0038	.0033	.0045				.0051		.0262	.0086			
82.500		.0068														
88.000	.0050			.0035												
90.000					.0055					.0069		.0077	.0096			
100.000					.0045					.0055		.1503	.1080			
120.000					.0088					.0065		.0177	.0165			
140.000					.0186					.0056		.0062	.0065			
150.000					.0066					.0031		.0406	.0069			

DATE 10 FEB 74 TABULATED PRESSURE DATA - 0483

AMES 3-3-194 0483 010 013 ON FUSELAGE SURFACE (R2W0311) (26 AUG 74)

PARAMETRIC DATA

REF = 2500.0000 50.00 XMRP = .0000 IN. BETA = 2.000 ELEVOM = 4.000  
 LREF = 474.0000 IN. XMRP = .0000 IN. ALIROM = .000 SPOBRK = .000  
 BRCP = 936.0000 IN. XMRP = .0000 IN. RUDDER = .000 SCFLAP = 16.300  
 SCALE = .0150

DEPENDENT VARIABLE CP

SECTION (1) FUSELAGE

NO	100.00	400.00	450.00	500.00	550.00	675.00	725.00	760.60	792.80	800.00	800.00	839.90	930.10	990.00	990.00
PHI															
60.000	.7531	.0861	.0825	.0745	.0395	.0158				.0149	.0241		.0115	.3273	
65.000				.0713	.0598	.0273	.0098		.0169					.0261	
67.000										.0101	.0127				
70.000	.0692	.0836	.0800	.0675	.0565	.0311	.0160			.0112	.0106			.0399	.0133
75.000	.0520	.0738	.0765												
80.000	.0454	.0546	.0707	.0620	.0364	.0303	.0235	.7764			.0061				
82.000										.0145	.0076			.0111	
85.000	.0303	.0351	.0453	.0616	.0585	.0354	.0305	.0308							
90.000	.0301	.0278													
120.000															
NO	1070.00	1080.00	1123.10	1120.00	1245.00	1300.00	1339.00	1369.00	1374.00	1375.00	1379.00	1430.00	1486.00		

PHI															
90.000	.0114	.0093	.0116	.0123	.0242	.0476	.0082	.0098	.0088	.0474					
91.000						.0090					.0084	.0201			
93.000						.0129	.0090				.0297	.0142			
95.000						.0131	.0095								
96.000										.0123	.0244	.0104			
97.000															
98.000									.0098						
99.000										.0086	.0067				
100.000						.0111	.0103			.0157	.0074				
105.000						.0116									
110.000						.0107									
115.000						.0132									
120.000						.0119									
125.000						.0121									
130.000						.0091	.0107			.0090	.0063				
135.000						.0115	.0129			.0123	.0082				
140.000						.0093	.0092			.0162	.0168				
145.000						.0060	.0066			.0063	.0074				
150.000						.0068	.0072			.0311	.0039				

DATE 10 FEB 75 TABULATED PRESSURE DATA - 0483

AMES 3.3-194 0483 010 RCS ON FUSELAGE SURFACE (REWO32) ( 28 1-6 74 )

REFERENCE DATA

REF = 2000.0000 30. FT. XMRP = .0000 IN. BETA = 2.000 ELEVON = 4.000  
 LREF = 474.0000 IN. YMRP = .0000 IN. ALLCON = .000 SPOBL = .000  
 BRP = 936.7000 IN. ZMRP = .0000 IN. RUDDER = .000 BOFLAP = 16.300  
 SCALE = 0.150

WALW ( 1 ) = 10.200 ALPHA ( 1 ) = 33.757 RN/L = 1.920 Q = 2.432 P = .053 PT = 1708.938

SECTION 1: FUSELAGE

DEPENDENT VARIABLE CP

EO	350.00	400.00	450.00	500.00	550.00	600.00	625.00	725.00	760.60	792.60	800.00	860.00	899.90	936.10	980.00	980.20
PHI																
80.000	.0426	.0979	.0878	.0770	.0445	.0185										
85.000				.0765	.0454	.0277	.0126									
90.000								.0189			.0163	.0176		.0089	.3048	
95.000	.0605	.0847	.0830	.0749	.0446	.0373	.0170				.0110	.0095			.0232	
100.000	.0592	.0729	.0804													
105.000	.0294	.0482	.0734	.0699	.0419	.0359	.0264				.0125	.0081			.0097	.0089
110.000								.0159					.1347			
115.000				.0573	.0688	.0424	.0318				.0162	.0060			.0067	
120.000	.0134	.0233	.0412													
125.000	.0155	.0152														

PHI

EO	1078.00	1080.00	1125.10	1180.00	1245.00	1300.00	1339.00	1369.00	1374.00	1375.00	1379.00	1430.00	1480.00
80.000						.0321				.0009		.0093	.0298
85.000							.0068				.0088		
90.000					.0064					.0033		.0039	.0094
95.000					.0090					.0362		.2936	.0045
100.000													
105.000			.0135		.0088	.0106	.0147			.0086		.0222	.0035
110.000	.0081												
115.000								.0078					
120.000			.0067		.0091	.0101	.0119		.0106		.1143	.0030	
125.000			.0064		.0089	.0100	.0098		.0065		.0126	.0046	
130.000				.0097									
135.000			.0082		.0057								
140.000						.0108				.0032	.0035	.0038	
145.000					.0127					.0035	.1126	.0905	
150.000					.0035					.0041	.0145	.0159	
155.000					.0038					.0070	.0045	.0050	
160.000					.0014					.0007	.0326	.0037	



AMES 31-134 0-03 010 PCS ON FUSELAGE SURFACE

REMOVED 1 28 AUG 74

## REFERENCE DATA

REF = 1699 0000 30 FT ZMRP = 1.0000 IN.  
 REF = 474.0000 IN. ZMRP = 1.0000 IN.  
 REF = 938 0000 IN. ZMRP = 1.0000 IN.  
 SCALE = 0133

## PARAMETRIC DATA

BETA = 2.000 ELEVON = 4.000  
 AILRON = .000 SPDRS = .000  
 RUDDER = .000 DDPLAP = 16.302

MACH 1.10 = 10.350 ALPHA 1.10 = 37.719 RM/L = 1.017 Q = 2.421 P = .033 PT = 1000.020

## SECTION 1 - FUSELAGE

## DEPENDENT VARIABLE CP

Q 350.00 400.00 450.00 500.00 550.00 625.00 725.00 760.00 792.00 800.00 880.00 899.90 936.10 980.00 990.20

## PMT

85.000 1.2505 0700 0697 0394 0262 -0.0045  
 86.000 1.2570 0262 0049 -0.0093  
 87.000 0330 0671 0647 0354 0253 -0.0049  
 88.000 0330 0531 0627 0331 -0.0049  
 89.000 0508 0232 0576 0350 0240 0196 0000  
 90.000 0648 0406 0221 0176 0092  
 91.000 0120 0000 0219  
 92.000 0107 0315

Q 1070 0 1790 00 1121 10 1160 07 1245 00 1300 00 1333 00 1374 00 1375 00 1379 00 1436 00 1480 00

## PMT

93.000 0415  
 94.000 0040  
 95.000 0107  
 96.000 0095  
 97.000 0072 0079 0024  
 98.000 0079 0072 0062 0061  
 99.000 0075 0048 0044 0058  
 100.000 0065 0067  
 101.000 0077  
 102.000 0088  
 103.000 0132  
 104.000 0124  
 105.000 0145

-0.0094 -0.0120 -0.0195  
 -0.0131 -0.0126  
 -0.0116 3759 -0.0164  
 -0.0131 -0.0046 -0.0162  
 -0.0093 -0.0124 -0.0132  
 -0.0104 -0.0016 -0.0160  
 -0.0127 -0.0132 -0.0150  
 -0.0077 -0.0100 -0.0022  
 -0.0166 -0.0010  
 -0.0125 -0.0112 -0.0097  
 -0.0124 -0.0159 -0.0153

## AMES 3-5-194 0483 010 RCS OFF FUSELAGE SURFACE

(REMOVED) (20 AUG 74)

## REFERENCE DATA

REF = 1000.0000 50. FT. WHP = 0.000 IN.  
 LREF = 474.0000 IN. WHP = 0.000 IN.  
 BREF = 938.0000 IN. WHP = 0.000 IN.  
 SCALE 3150

MACH (1) = 10.200 ALPHA (1) = 29.755 RW/L = 1.912 Q = 2.464 P = .033 PT = 1623.878

## SECTION 1 FUSELAGE

## DEPENDENT VARIABLE CP

X	350.00	400.00	450.00	500.00	550.00	625.00	725.00	760.00	792.00	800.00	880.00	859.90	938.10	980.00	990.00
PHI															
60.000	.0577	.1002	.0872	.0739	.1359	.0169									
65.000				.0716	.0407	.0262	.0102			.0134	.0222			.0183	
67.000								.0200				.0083			
70.000	.0607	.0889	.0839	.0886	.0392	.0323	.0162			.0083	.0055			.0377	
75.000	.0628	.0792	.0809												
80.000	.0536	.0603	.0750	.0631	.0382	.0306	.0273			.0121	.0082			.0048	
82.000							.7519					.2431			.0118
85.000			.0876	.0597	.0364	.0312	.0311			.0174	.0073			.0043	
90.000	.0368	.0423													
120.000	.0378	.0350													

XO 1076.00 1080.00 1125.10 1160.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

## PHI

50.000					.0455					.0040		.0039	.0093		
51.000								.0044							
55.000					.0059					.0010		.0032	.0015		
60.000					.0059					.0025		.5399	.0047		
64.000							.0040								
65.000			.0064		.0052	.0041	.0150			.0038		.0241	.0042		
67.000	.0031														
68.000									.0042						
70.000		.0049			.0040	.0032	.0097			.0017		.3163	.0049		
80.000		.0033			.0022	.0028	.0020			.0026		.9210	.0049		
82.000			.0044												
85.000		.0038			.0036										
90.000					.0037					.0030		.0082	.0049		
100.000					.0034					.0018		.1032	.0811		
120.000					.0049					.0042		.0173	.0172		
140.000					.0063					.0054		.0063	.0071		
150.000					.0076					.0048		.3318	.0093		



AMES 3.5-194 QAO3 010 RCS OFF FUSELAGE SURFACE

PEW0301 ( 24 AUG 74 )

## REFERENCE DATA

REF 1 7650 0000 50.00 IN. 0.0000 IN.  
 REF 2 471.0000 IN. 0.0000 IN.  
 REF 3 510 7600 IN. 0.0000 IN.  
 SCALE 1 0.150

## PARAMETRIC DATA

BETA 2 2.000 ELEVON 2 4.000  
 AIRLON 2 0.000 SPDRS 2 0.000  
 RUDDER 2 0.000 ROLAP 2 10.320

PACH ( 1 ) 1 10 200 ALPHA ( 1 ) 2 37 715 RM/L = 1.021 0 2 2.425 P 2 .033 PT 2 1000.100

## SECTION 1 FUSELAGE

## DEPENDENT VARIABLE CP

NO 350.00 400.00 450.00 500.00 550.00 600.00 625.00 725.00 760.00 792.00 800.00 850.00 899.90 930.10 980.00 990.00

## PHI

80.000 1.1450 0.810 0.715 0.604 0.271 0.0034  
 85.000 0.574 0.267 0.064 0.0105  
 87.000  
 90.000 0.349 0.897 0.600 0.564 0.259 0.176 0.0047  
 95.000 0.137 0.148 0.634  
 99.000 0.034 0.276 0.602 0.530 0.244 0.192 0.096  
 92.100  
 95.000 0.470 0.502 0.227 0.175 0.121  
 98.000 0.084 0.013  
 100.000 0.002 0.010

## NO

1070.00 1080.00 1090.00 1125.10 1180.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

## PHI

90.000 0.470  
 91.000  
 95.000 0.133  
 98.000 0.170  
 94.000  
 99.000 0.172 0.187 0.184 0.064  
 97.000 0.0175  
 98.000  
 99.000 0.163 0.160 0.172 0.148  
 98.000 0.150 0.155 0.145 0.149  
 92.000 0.159  
 95.000 0.032  
 98.000 0.150  
 100.000 0.010  
 105.000 0.125  
 108.000 0.139  
 110.000 0.128



DATE 10 FEB 75 TABULATED PRESSURE DATA - 0483

IRWD0371 1 20 AUG 74 1

AMES 3.5-194 DASS OLD RCS ON FUSELAGE SURFACE

PARAMETRIC DATA

SETA = .000 ELEVON = -0.000  
 AILERON = .000 SPOILER = .000  
 RUDDER = .000 BOFLAP = -11.700

REFERENCE DATA

REF 1 8000.0000 SQ.FT. TMRP 1 .0000 IN.  
 REF 2 474.0000 IN. TMRP 1 .0000 IN.  
 REF 3 936.7000 IN. TMRP 1 .0000 IN.  
 SCALE 1 .0100

MACH 1.10 7.380 ALPHA 1.11 23.775 RW/L 1 9.411 Q 1 12.020 P 1 .320 PT 1 1702.020

DEPENDENT VARIABLE CP

SECTION 1 FUSELAGE

10 350.00 400.00 450.00 500.00 550.00 600.00 650.00 700.00 750.00 800.00 850.00 900.00 950.00 1000.00

PHI  
 90.000 1000 1194 1023 0759 0295 .0031  
 85.000 0714 0314 .0214 -.06130  
 80.000 0810 1043 .0631 .0605 .0283 .0710 .0331  
 75.000 0623 .0800 .0895 .0823 .0140 .0169  
 70.000 0320 0635 .0592 .0223 .0140 .0169  
 65.000 0707 0539 .0206 0163 .0146  
 60.000 0275 .0391 .0547  
 55.000 0232 0247

10 1070.00 1080.00 1120.00 1180.00 1240.00 1300.00 1350.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

PHI  
 90.000  
 85.000 .0172  
 80.000 -.0150  
 75.000 .0111  
 70.000 -.0114  
 65.000 -.0106  
 60.000 .0110  
 55.000 .0121 .0111 .0117  
 50.000 -.0120  
 45.000 .0140  
 40.000 .0137  
 35.000 .0129 .0114 .0114  
 30.000 .0120  
 25.000 .0131  
 20.000 .0110  
 15.000 .0099  
 10.000 .0030  
 5.000 .0122



DATE 19 FEB 75 TABULATED PRESSURE DATA - 0487

AMES 3.5-134 0483 Q10 RCS ON FUSELAGE SURFACE (REF039) ( 28 AUG 74 )

REFERENCE DATA

REF = 2000.0000 30. FT. XREF = .0000 IN. BETA = -3.000  
 LEZP = 474.8000 IN. YREF = .0000 IN. ALFROM = .000 SPDRK = .000  
 REF = 936.7000 IN. ZREF = .0000 IN. RUDDER = .000 DRFLAP = -11.700  
 SCALE = .0130

PARAMETRIC DATA

MACH ( 1 ) = 7.320 ALPHA ( 1 ) = 31.613 RM/L = 0.173 Q = 0.939 P = .238 PT = 1327.240

SECTION ( 1 ) FUSELAGE DEPENDENT VARIABLE CP

XO 350.00 400.00 450.00 500.00 550.00 600.00 625.00 725.00 760.80 792.80 800.00 880.00 899.90 936.10 990.00 990.20

PMI

60.000 .2074 .1144 .1004 .0725 .0333 -.0079 -.0061 -.0104 -.0088 -.0010  
 65.000 .0739 .0337 .0267 -.0073  
 67.000  
 70.000 .0608 .0991 .0973 .0729 .0337 .0283 -.0073 -.0062 -.0099 -.0051  
 75.000 .0368 .0613 .0924  
 80.000 .0229 .0496 .0867 .0666 .0324 .0236 .0112 -.0067 -.0096 -.0084  
 82.500  
 85.000 .0717 .0634 .0291 .0259 .0415 .1623 -.0065 -.0112 .0259 -.0091  
 90.000 .0176 .0198 .0443  
 120.000 .0176 .0160

XO 1076.00 1080.00 1123.10 1160.00 1245.00 1300.00 1359.00 1374.00 1375.00 1379.00 1430.00 1460.00

PMI

50.000  
 51.000 .0242 -.0228 -.0232 .0035  
 55.000 -.0189 -.0116  
 59.000 -.0165 -.0232 -.0156  
 60.000 -.0175 -.0201 .0916 -.0180  
 64.000  
 65.000 -.0069 -.0121 -.0153 -.0171 -.0192 -.0167 -.0179  
 67.000 -.0077  
 68.000  
 70.000 -.0087 -.0176 -.0154 -.0173 -.0188 -.0176 -.0181  
 80.000 -.0091 -.0134 -.0155 -.0174 -.0186 -.0174  
 82.500  
 85.000 -.0098 -.0131  
 90.000  
 95.000 -.0177 -.0168 -.0173 -.0171  
 100.000 -.0167 -.0215 .0603 .0473  
 120.000 -.0140 -.0166 -.0185  
 140.000 -.0147 -.0215 -.0201 -.0181  
 150.000 -.0172 -.0216 -.0069 -.0176

AMZS 3.5-194 0A03 010 RCS OFF FUSELAGE SURFACE

(REV 340) (28 JUL 74)

REFERENCE DATA

0610	2753	2	4288	1500000	444	2	10000	1 M.
			4288	1000000	444	2	10000	1 M.
			4287	1000000	444	2	10000	1 M.
			4286	1000000	444	2	10000	1 M.

### PARAMETRIC DATA

BETA	=	.000	ELEVON	=	-6.0000
AILRON	=	.000	SPDRK	=	.000
RUDDER	=	.000	BDFLAP	=	-11.700

NAME	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)	(63)	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	(77)	(78)	(79)	(80)	(81)	(82)	(83)	(84)	(85)	(86)	(87)	(88)	(89)	(90)	(91)	(92)	(93)	(94)	(95)	(96)	(97)	(98)	(99)	(100)
NAME	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)	(63)	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	(77)	(78)	(79)	(80)	(81)	(82)	(83)	(84)	(85)	(86)	(87)	(88)	(89)	(90)	(91)	(92)	(93)	(94)	(95)	(96)	(97)	(98)	(99)	(100)

## SECTION ( 1 ) FUSELAGE

## DEPENDENT VARIABLE CP

[illegible][illegible]

NO	1076.00	1080.00	1123.10	1180.00	1245.00	1300.00	1339.00	1369.00	1374.00	1375.00	1379.00	1430.00	1480.00
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[illegible]



DATE 18 728 71 TABULATED PRESSURE DATA - 0483

SUES 3.3-194 0483 010 RCS OFF FUSELAGE SURFACE (REV041) (28 AUG 74)

REFERENCE DATA  
 BREF = 2690.0000 36.71 ZMRP = .0000 IN.  
 LREF = 474.0000 IN. YMRP = .0000 IN.  
 RREF = 936.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0130  
 PARAMETRIC DATA  
 BETA = .000 ELEVON = -5.000  
 AILERON = .000 SPDBRK = .000  
 RUDDER = .000 SOFLAP = -11.700  
 MACM (1) = 7.320 ALPHA (1) = 27.810 RN/L = 7.905 Q = 11.910 P = .310 PT = 1795.300

SECTION (1) FUSELAGE  
 DEPENDENT VARIABLE CP  
 XZ 350.00 400.00 450.00 500.00 550.00 600.00 625.00 725.00 760.60 792.80 800.00 880.00 899.90 936.10 980.00 990.00

PMI  
 60.000 .2182 .1120 .0974 .0734 .0293 -.0044  
 65.000 .0723 .0301 .0278 -.0180  
 67.000  
 70.000 .0657 .0973 .0903 .0695 .0293 .0207 -.0029  
 75.000 .0407 .0794 .0859  
 80.000 .0307 .0524 .0793 .0614 .0263 .0214 .0239  
 87.500  
 95.000 .0560 .0562 .0250 .0214 .0204  
 100.000 .0384 .0216 .0405  
 120.000 .0080 .0098  
 .1786  
 .0299 -.0007  
 .0370  
 -.0216  
 -.0198  
 -.0197  
 -.0186

XZ 1076.00 1090.00 1123.10 1180.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1460.00

PMI  
 50.000  
 51.000  
 55.000  
 60.000  
 64.000  
 65.000  
 67.000  
 68.000  
 70.000  
 80.000  
 82.000  
 85.000  
 90.000  
 100.000  
 120.000  
 140.000  
 150.000  
 -.0202  
 -.0214  
 -.0213  
 -.0219  
 -.0206  
 -.0219  
 -.0202  
 -.0191  
 .0367  
 .0037  
 -.0148  
 -.0213  
 -.0199  
 -.0183  
 -.0191  
 -.0190  
 -.0191  
 -.0160  
 -.0191  
 -.0289  
 -.0177  
 -.0190  
 -.0185  
 .0586  
 -.0127  
 -.0139  
 -.0215  
 -.0194  
 -.0075  
 -.0199  
 -.0221  
 -.0201  
 -.0201  
 -.0195  
 -.0192  
 -.0194  
 -.0192  
 -.0216  
 -.0205  
 -.0204  
 -.0204  
 -.0206  
 -.0202  
 -.0191  
 .0367  
 .0037  
 -.0148  
 -.0213  
 -.0199  
 -.0183  
 -.0191  
 -.0190  
 -.0191  
 -.0160  
 -.0191  
 -.0289  
 -.0177  
 -.0190  
 -.0185  
 .0586  
 -.0127  
 -.0139  
 -.0215  
 -.0194  
 -.0075  
 -.0199

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TABULATED PRESSURE DATA - 0483

DATE 19 FEB 78

(REMOVED) ( 28 AUG 74 )

AMES 3.5-194 0483 010 RCS OFF FUSELAGE SURFACE

REFERENCE DATA

BREF = 2500.0000 10. FT. XMRP = .0000 IN.  
 LREF = 474.8000 IN. YMRP = .0000 IN.  
 BREF = 938.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVOM = -0.000  
 ALLROM = .000 SPDRK = .000  
 PUDDER = .000 SDPLAP = -11.700

MACH ( 1 ) = 7.320 ALPHA ( 1 ) = 31.804 RN/L = 7.139 Q = 11.851 P = .316 PT = 1798.100

SECTION ( 1 ) FUSELAGE

DEPENDENT VARIABLE CP

XO 350.00 400.00 450.00 500.00 550.00 600.00 625.00 725.00 760.80 792.80 800.00 880.00 889.90 938.10 980.00 990.20

PMI

80.000 .2984 .1149 .0996 .0735 .0354 -.0037  
 85.000 .0773 .0358 .0303 -.0156  
 87.000  
 90.000 .0365 .0981 .0972 .0759 .0354 .0291 -.0028  
 95.000 .0336 .0797 .0921  
 100.000 .0211 .0480 .0867 .0716 .0343 .0279 .0338  
 102.500 .2841  
 105.000 .0704 .0664 .0342 .0283 .0303  
 110.000 .0080 .0183 .0450  
 120.000 .0058 .0082

XO 1078.00 1080.00 1123.10 1180.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

PMI

50.000  
 51.000  
 55.000  
 60.000  
 64.000  
 65.000  
 67.000  
 68.000  
 70.000  
 80.000  
 82.500  
 85.000  
 87.000  
 90.000  
 95.000  
 100.000  
 120.000  
 140.000  
 150.000



### PARAMETRIC DATA

PARAMETER	VALUE	UNIT	DESCRIPTION
ZMRP	2000.0000	50. FT.	ZMRP = 2000.0000
YMRP	474.0000	IN.	YMRP = 474.0000
ZMRP	930.7000	IN.	ZMRP = 930.7000
SCALE	.0150		SCALE = .0150
BETA	.000		BETA = .000
ELEVON	.000		ELEVON = .000
SPDBRK	.000		SPDBRK = .000
RUDER	.000		RUDER = .000
BDFLAP	10.300		BDFLAP = 10.300

[illegible]

DEPENDENT VARIABLE CP

[illegible][illegible][illegible]

AMES 3-5-104 OARS 010 RCS ON FUSELAGE SURFACE

(REWD44) ( 20 AUG 74 )

## REFERENCE DATA

REF \* 1600.0000 50. FT. XMRP \* .0000 IN.  
 REF \* 474.0000 IN. YMRP \* .0000 IN.  
 REF \* 936.7000 IN. ZMRP \* .0000 IN.  
 SCALE \* .0150

## PARAMETRIC DATA

SECTA \* .000 ELEVON \* 1.003  
 AILRON \* .000 SPOBRK \* .003  
 RUDDER \* .000 BOFLAP \* 16.300

MACH ( 1 ) \* 7.320 ALPHA ( 1 ) \* 27.634 RM/L \* 7.141 Q \* 11.844 P \* .316 PT \* 1796.970

## SECTION ( 1 ) FUSELAGE

## DEPENDENT VARIABLE CP

Y0 330.00 400.00 450.00 500.00 550.00 625.00 725.00 760.00 792.00 800.00 880.00 899.00 936.10 990.00 990.00

## PMI

80.000 .0001 1190 .1046 .0746 .0320 -.0006  
 85.000 .0750 .0335 .0301 -.0135  
 87.000  
 70.000 .0705 .1037 .0976 .0725 .0330 .0230 -.0014  
 75.000 .0487 .0861 .0917  
 80.000 .0380 .0376 .0864 .0846 .0286 .0245 .0285  
 82.000  
 85.000 .0714 .0594 .0252 .0241 .0236  
 90.000 .0207 .0296 .0464  
 120.000 .0190 .0169

## Z0

1078.00 1080.00 1123.10 1160.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

## PMI

90.000  
 91.000 .0354  
 95.000  
 98.000 .0135  
 99.000 .0141  
 64.000  
 65.000 .0079  
 67.000 .0062 .00125 .0136  
 68.000  
 69.000  
 70.000 .0031  
 80.000 .0048  
 82.000 .0048  
 83.000 .0040  
 90.000  
 100.000  
 120.000  
 140.000  
 150.000

-.0215  
 -.0190  
 -.0166  
 -.0172  
 -.0159  
 -.0154  
 -.0151  
 -.0160  
 -.0160  
 -.0169  
 -.0162  
 -.0169  
 -.0206  
 .0731  
 -.0166  
 -.0165  
 -.0163  
 -.0170  
 .0543  
 -.0171  
 -.0180  
 -.0161  
 -.0077  
 -.0167



(REMOVED) 1 26 AUG 74

AMES 3.5-194 0403 010 RCS ON FUSE AGE SURFACE

REFERENCE DATA

REF = 2000.0000 10 FT. XMRP = .0000 IN. BETA = 1.000  
 LREF = 474.0000 IN. XMRP = .0000 IN. AILRON = .000  
 RREF = 936.7000 IN. XMRP = .0000 IN. RUDDER = 10.300  
 SCALE = .0150

PARAMETRIC DATA

MACH (1) = 7.320 ALPHA (1) = 31.879 RM/L = 7.461 Q = 11.869 P = .310 PT = 1793.000

DEPENDENT VARIABLE CP

SECTION (1) FUSELAGE

X	350.00	400.00	450.00	500.00	550.00	600.00	625.00	725.00	760.60	792.80	800.00	800.00	899.90	936.10	980.00	990.00
PMI																
60.000	.823	.1179	.1032	.0746	.0342	-.0062										
65.000				.0761	.0340	-.0067										
67.000																
70.000	.0622	.1022	.1008	.0732	.0342	-.0265	-.0066									
75.000	.0409	.0834	.0956													
80.000	.0307	.0521	.0595	.0702	.0335	.0270	.0144									
82.500				.0739	.0652	.0329	.0275	.0419								
85.000	.0181	.0291	.0465													
120.000	.0143	.0117														
X	1078.00	1080.00	1123.10	1180.00	1245.00	1300.00	1339.00	1369.00	1374.00	1375.00	1379.00	1430.00	1430.00	1480.00		
PMI																
50.000																
51.000																
55.000																
60.000																
65.000																
67.000																
70.000																
75.000																
80.000																
82.500																
85.000																
87.000																
90.000																
95.000																
100.000																
105.000																
110.000																
115.000																
120.000																

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AMES 3-5-194 0463 Q10 RCS OFF FUSELAGE SURFACE

REFERENCE DATA

REF = 7000.0000 16. PT. 1MRP = .0000 IN.  
 REF = 474.0000 IN. 1MRP = .0000 IN.  
 REF = 636.7000 IN. 1MRP = .0000 IN.  
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEVON = 1.000  
 ALLCON = .000 SPOBRA = .000  
 RUDDER = .000 BDPLAP = 16.300

MACH (1) = 7.320 ALPHA (1) = 23.740 RM/L = 0.343 0 = 11.970 F = 3.3 0 PT = 1700.120

SECTION (1) FUSELAGE

DEPENDENT VARIABLE CP

PO	350.00	400.00	450.00	500.00	550.00	625.00	725.00	760.60	792.87	880.00	899.90	936.10	980.00	990.00
PHI														
60.000	.2111	.1161	.0995	.0742	.0275	.0033				.0216	-.0213			.2404
65.000				.0693	.0266	.0166	-.0161					-.0240		
67.000														
70.000	.0760	.0999	.0307	.0651	.0264	.0156	.0333			.0182	-.0234			-.0090
75.000	.0591	.0830	.0870											
80.000	.0484	.0634	.0806	.0374	.0208	.0149	.0142			.0146	-.0037			-.0224
82.500				.0603	.0323	.0192	.0118	.2036			.0992			-.0204
85.000				.0259	.0361					.0136	.0126			-.0159
120.000	.0204	.0249												

PO	1070.00	1080.00	1125.10	1180.00	1245.00	1300.00	1339.00	1369.00	1374.00	1375.00	1379.00	1430.00	1480.00
----	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

PHI

50.000						.0353				-.0236		-.0221	-.0207
51.000								-.0225			-.0220		
55.000						-.0215				-.0230		-.0214	-.0210
60.000						-.0225				-.0225		.1926	-.0208
64.000							-.0206						
65.000			-.0196		-.0253	-.0241	-.0216			-.0211		-.0197	-.0213
67.000													
68.000			-.0230										
70.000			-.0225		-.0257	-.0240	-.0223			-.0150		.1011	-.0227
80.000			-.0247		-.0246	-.0245	-.0223			-.0177		-.0205	-.0233
82.500				-.0228									
85.000			-.0242		-.0250								
90.000						-.0219				-.0193		-.0214	-.0222
100.000						-.0221				-.0193		.0634	.0446
120.000						.1356				-.0150		-.0164	
140.000						.0199				-.0197		-.0233	-.0214
150.000						-.0150				-.0245		-.0256	-.0217

AMES 3-3-194 DAB3 OLD RCS OFF FORECAST SURFACE

(REMOVED) ( 28 AUG 74 )

## REFERENCE DATA

REF = 2000.0000 30.971 WTP = 0000 IN.  
 REF = 474.0000 IN. WTP = 0000 IN.  
 REF = 937.0000 IN. WTP = 0000 IN.  
 SCALE = .0150

## PARAMETRIC DATA

BETA = .000 ELEVON = 1.000  
 AILERON = .000 SPDBRA = .000  
 RUDDER = .000 BDFLAP = 10.300

MACH ( 1 ) = 7.350 ALPHA ( 1 ) = 27.636 RWL = 0.400 Q = 11.929 P = .310 PT = 1791.610

## DEPENDENT VARIABLE CP

## SECTION ( 1 ) FUSELAGE

X 350.00 400.00 450.00 500.00 550.00 600.00 650.00 700.00 750.00 800.00 850.00 900.00 950.00 980.00 990.28

## PMT

00.000 1.824 1.134 0.972 0.719 0.277 -0.0067 -0.0207 -0.0233 -0.0228 -0.0227 -0.0241 -0.0223  
 01.000 0.713 0.283 0.263 -0.0207  
 02.000 0.829 0.987 0.903 0.692 0.281 0.186 -0.0547 -0.0233 -0.0220 -0.0249 -0.0131  
 03.000 0.418 0.791 0.636 0.418 0.247 0.186 0.0214 -0.0071 -0.0117 -0.0220  
 04.000 0.335 0.519 0.389 0.264 0.247 0.186 0.0214 -0.0269 -0.0274 -0.0202  
 05.000 0.636 0.535 0.332 0.190 0.0175  
 06.000 0.100 0.219 0.404  
 07.000 0.083 0.098

X 1070.00 1080.00 1123.10 1180.00 1245.10 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1450.00 1480.00

## PMT

00.000 0.673 -0.0240 -0.0219 -0.0203  
 01.000 -0.0221 -0.0212 -0.0209 -0.0208  
 02.000 -0.0210 -0.0212 -0.0209 -0.0209  
 03.000 -0.0210 -0.0210 -0.0207  
 04.000 -0.0237 -0.0216 -0.0206  
 05.000 -0.0233 -0.0224 -0.0206  
 06.000 0.217 -0.0232 -0.0221 -0.0208  
 07.000 -0.0223 -0.0222  
 08.000 -0.0222 -0.0206  
 09.000 -0.0203 -0.0244 -0.0203  
 10.000 -0.0203 -0.0244 -0.0203  
 11.000 -0.0203 -0.0244 -0.0203  
 12.000 -0.0203 -0.0244 -0.0203  
 13.000 -0.0203 -0.0244 -0.0203  
 14.000 -0.0203 -0.0244 -0.0203  
 15.000 -0.0203 -0.0244 -0.0203

AMES 3-3-54 0403 CIG RCS OFF FUSELAGE SURFACE

(REWD08) ( 20 4 26 74 )

REFERENCE DATA

[illegible]

Case No.	Age	Sex	Occupation	Duration of Illness	Site of Lesion	Microscopic Findings	Diagnosis
1	45	M	Farmer	10 years	Right lung	Granuloma with caseation	Tuberculosis
2	35	F	Teacher	5 years	Left lung	Granuloma with caseation	Tuberculosis
3	55	M	Engineer	15 years	Right lung	Granuloma with caseation	Tuberculosis
4	65	F	Homemaker	20 years	Left lung	Granuloma with caseation	Tuberculosis
5	40	M	Doctor	12 years	Right lung	Granuloma with caseation	Tuberculosis
6	30	F	Nurse	8 years	Left lung	Granuloma with caseation	Tuberculosis
7	50	M	Engineer	18 years	Right lung	Granuloma with caseation	Tuberculosis
8	60	F	Homemaker	22 years	Left lung	Granuloma with caseation	Tuberculosis
9	42	M	Teacher	14 years	Right lung	Granuloma with caseation	Tuberculosis
10	38	F	Nurse	10 years	Left lung	Granuloma with caseation	Tuberculosis

234738641 ) MC1A226

## DEPENDENT VARIABLE CP

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100										
100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200

[illegible]

1076	00	1000	00	1123.10	1100.00	1243.00	1300.00	1339.00	1369.00	1374.00	1375.00	1379.00	1430.00	1480.00
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[illegible]



DATE 10 FEB 78 TABULATED PRESSURE DATA - CASE

AMES 3.3-194 0403 010 RCS ON FUSELAGE SURFACE

(NEW) 1 20 AUG 74

REFERENCE DATA

REF = 0000 0000 00.01. XMP = 0000 IN. BETA = 0.000 ELEVON = -0.000  
 REF = 0000 0000 00.01. XMP = 0000 IN. ALLEON = 0.000 SPOOR = 0.000  
 REF = 0000 0000 00.01. XMP = 0000 IN. RUDDER = 0.000 BOFLAP = -11.700  
 SCALE = 0.010

PARAMETRIC DATA

MACH (1) = 0.800 ALPHA (1) = 17.070 RM/L = 3.502 0 = 7.925 P = 0.000 PT = 297.400

SECTION 1 FUSELAGE DEPENDENT VARIABLE CP

20 350.00 400.00 450.00 500.00 550.00 600.00 650.00 700.00 750.00 800.00 850.00 900.00 950.00 1000.00

PHI  
 00.000 4002 01150 5974 00681 01009 00033 00014 00014 00006 00003 00019 00017 00017 00017  
 01.000 0012 00133 00022 00039 00014 00014 00014 00014 00014 00014 00014 00014 00014 00014  
 02.000 0004 00115 00009 00009 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 03.000 0010 00039 00030 00030 00030 00030 00030 00030 00030 00030 00030 00030 00030 00030  
 04.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 05.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 06.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 07.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 08.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 09.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 10.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 11.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 12.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 13.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 14.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 15.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 16.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 17.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 18.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 19.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 20.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010

21 1070.00 1080.00 1090.00 1100.00 1110.00 1120.00 1130.00 1140.00 1150.00 1160.00 1170.00 1180.00 1190.00 1200.00

PHI  
 00.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 01.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 02.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 03.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 04.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 05.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 06.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 07.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 08.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 09.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 10.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 11.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 12.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 13.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 14.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 15.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 16.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 17.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 18.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 19.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010  
 20.000 0004 00015 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010 00010

AMES 3.5-194 0483 010 RCS 04 FUSELAGE SURFACE

ITEMS 000 1 20 405 74

## REFERENCE DATA

REF 1 2000 0000 10 FT. IMP 1 00000 IM.  
 REF 2 014 0000 IM. IMP 2 00000 IM.  
 REF 3 010 0000 IM. IMP 3 00000 IM.  
 SCALE 1 0100

## PARAMETRIC DATA

BETA 1 000 ELEVON 1 -0.000  
 ALTRON 1 000 SPORER 1 000  
 RUDDER 1 000 BDFLAP 1 -11.700

MACH 1 0.85 ALPHA 1 11.5 21.203 RM/L 1 3.300 Q 1 7.970 P 1 .412 PT 1 299.850

## SECTION 1: FUSELAGE

## DEPENDENT VARIABLE CP

NO 390 00 400 00 450 00 500 00 550 00 600 00 650 00 700 00 750 00 760 00 782 00 800 00 850 00 899 00 936 10 990 00 990 00

## PHI

00 000 5380 1101 0585 0657 0517 0260  
 05 000 0650 0196 0059 -0137  
 07 000 0049 0006 0010 0607 0059 01 6  
 10 000 0050 0000 0000 0000 0000 0000  
 15 000 0430 0000 0000 0522 01 3 0040 0019  
 02 000 0707 0470 0079 0028 0004  
 05 000 0004 0407 0563  
 10 000 0031 0347

NO 1070 00 1080 00 1125 10 1100 00 1245 10 1300 00 1359 00 1369 00 1374 00 1375 00 1379 00 1430 00 1400 00

## PHI

00 000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000  
 05 000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000  
 10 000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000  
 15 000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000  
 20 000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000  
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 135 000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000  
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 145 000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000  
 150 000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000



DATE 11 FEB 75 TABULATED PRESSURE DATA - CASE

AMES 3 9-194 DABS D10 RCS OFF FUSELAGE SURFACE

(REV038) ( 88 AUG 74 )

REFERENCE DATA

REF 1 1000-0000 10 FT. INRP 2 0000 IN.  
 REF 2 174-0000 1M. INRP 3 0000 IN.  
 REF 3 136 7000 1M. INRP 4 0000 IN.  
 SCALE 1 0.150

MACM ( 1 ) 5 5.800 ALPHA ( 1 ) 17.691 RM/L 3 3.278 0 2 0.001 P 2 .413 PT 2 201 000

SECTION 1 FUSELAGE

DEPENDENT VARIABLE CP

10 350.00 400.00 450.00 500.00 550.00 600.00 625.00 725.00 760.00 792.00 800.00 880.00 899.00 936.10 980.00 980.00

PM1

60 000 3391 1156 1003 0312 0349 -0.0081  
 61 000 0466 0013 -0.012 -0.0094  
 67 000 1010 1040 0030 0028 -0.0014 -0.0118 -0.0102  
 70 000 0866 0072 0091  
 75 000 0007 0043 0034 0030 -0.0073 -0.0136 -0.0175  
 82 000 02305  
 83 000 0791 0026 -0.0079 -0.0146 -0.0183  
 90 000 0039 0013 00715  
 120 000 0439 0390

10 1076.00 1080.00 1123.10 1160.00 1243.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1460.00

PM1

10 000 0278  
 11 000 0463  
 13 000 0310  
 15 000 0314  
 16 000 0483  
 18 000 0280 0496 0316 532  
 19 000 0408  
 20 000 0416 0493 0326 0316  
 21 000 0416 0493 0326 0316  
 22 000 0416 0493 0326 0316  
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 117 000 0416 0493 0326 0316  
 118 000 0416 0493 0326 0316  
 119 000 0416 0493 0326 0316  
 120 000 0416 0493 0326 0316

PARAMETRIC DATA

BETA 2 .000 ELEVOM 2 -0.000  
 ALPHOM 2 .000 SPORER 2 .000  
 RUDDER 2 .000 BDFLAP 2 -11.700



DATE 10 FEB 75 TABULATED PRESSURE DATA - 0423

ARES 3.3-194 DABS 010 RCS OFF FUSELAGE SURFACE (REMOVED) ( 20 AUG 74 )

PARAMETRIC DATA

BETA = .000 ELEVON = -8.000  
 ALLROM = .000 SPOBRK = .000  
 RUDDER = .000 BOFLAP = -11.100

REFERENCE DATA

SIZE = 2000.0000 50. FT. XMRP = .0000 IN.  
 LREF = 474.0000 IN. YMRP = .0000 IN.  
 BRFP = 936.7000 IN. ZMRP = .0000 IN.  
 SCALE = .0150

MACH ( 1 ) = 5.800 ALPHA ( 1 ) = 21.506 RN/L = 3.239 Q = 0.041 P = .415 PT = 303.502

SECTION ( 1 ) FUSELAGE DEPENDENT VARIABLE CP

XO 302.00 400.00 450.00 500.00 560.00 625.00 725.00 763.60 792.50 800.00 880.00 899.90 936.10 980.00 990.20

PMI	302.00	400.00	450.00	500.00	560.00	625.00	725.00	763.60	792.50	800.00	880.00	899.90	936.10	980.00	990.20
03.000	.2960	.1199	.0316	.0352	.0079	.0121									
05.000				.0304	.0053	-.0078	-.0305								
07.000								-.0423		-.0504	-.0436				.1190
10.000	.7839	.1023	.0936	.0459	.0021	.0002	-.0045			-.0260	-.0460				-.0365
15.000	.0882	.0881	.0881												
20.000	.0655	.0711	.0808	.0370	-.0047	-.0094	-.0110			-.0110	-.0089				-.0393
22.500				.0718	.0321	-.0064	-.0113	-.0132							
25.000	.0320	.0430	.0567							-.0126	-.0049				-.0172
120.000	.0276	.0390													

XO 1078.00 1080.00 1123.10 1183.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

PMI	1078.00	1080.00	1123.10	1183.00	1245.00	1300.00	1339.00	1369.00	1374.00	1375.00	1379.00	1430.00	1480.00
03.000													
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AMES 3-5-194 QAB3 Q10 RCS OFF FUSELAGE SURFACE

(REMOVED) 28 AUG 73

## REFERENCE DATA

REF 1 2500.0000 50. FT. XMRP 2 .0000 IN.  
 LREF 2 474.0000 IN. XMRP 3 .0000 IN.  
 REF 3 936.7000 IN. XMRP 4 .0000 IN.  
 SCALE 5 .0150

## PARAMETRIC DATA

BETA = .000 ELEVON 2 -8.000  
 AILRON 2 .000 SPOBRK 2 .000  
 RUDDER 2 .000 BOFLAP 2 -11.700

MACH ( 1 ) = 5.255 ALPHA ( 1 ) = 25.821 RN/L = 3.092 Q = 7.784 P = .402 PT = 293.840

## SECTION ( 1 ) FUSELAGE

## DEPENDENT VARIABLE CP

XO 350.00 400.00 450.00 500.00 550.00 600.00 625.00 725.00 760.80 792.80 800.00 860.00 899.90 936.10 980.00 990.20

## PM1

90.000 .2577 .1168 .1033 .0561 .0057 -.0330  
 95.000 .5559 .0577 .0021 -.0490  
 97.000  
 70.000 .0697 .1024 .0953 .0504 .0066 -.0039 -.0300  
 75.000 .0483 .0834 .0906  
 80.000 .0436 .0370 .0818 .0414 .0007 -.0029 -.0034  
 82.000  
 85.000 .0886 .0353 -.0012 -.0049 -.0059  
 90.000 .0102 .0249  
 120.000 .0109 .0160

-.0380  
 -.0424

XO 1078.00 1080.00 1123.10 1180.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

## PM1

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AMES 3.3-134 0483 OLD RCS ON FUSELAGE SURFACE (REMOVED) ( 28 AUG 74 )

REFERENCE DATA

REF = 2000.0000 36.77. XMRP = .0000 IN. BETA = .000 ELEVOM = -5.000  
 LREF = 474.0000 IN. YMRP = .0000 IN. AILROM = .000 SPDRK = .000  
 RREF = 918.7000 IN. ZMRP = .0000 IN. RUDDER = .000 BOFLAP = 16.300  
 SCALE = .0150

MACH ( 1 ) = 3.259 ALPHA ( 1 ) = 17.708 RM/L = 3.410 Q = 7.848 P = .403 PT = 294.748

SECTION ( 1 ) FUSELAGE

DEPENDENT VARIABLE CP

XO 350.00 400.00 450.00 500.00 550.00 600.00 625.00 725.00 760.00 792.00 800.00 860.00 899.90 936.10 980.00 990.20

PHI

90.000 .4184 .1133 .0935 .0873 .0196 .0088 .0085 .0144 -.0385 .4221  
 95.000 .0622 .0139 .0031 .0085 .0039 -.0409  
 97.000 .0984 .1001 .0881 .0578 .0126 .0017 .0003 .0033 -.0169 -.0246  
 75.000 .0687 .0923 .0836 .0793 .0515 .0080 .0004 -.0036 -.0036 -.0071 -.0099  
 90.000 .0700 .0792 .0734 .0477 .0037 -.0009 -.0037 .0033 -.0048 -.0095  
 92.500 .0476 .0586 .0632  
 90.000 .0410 .0513  
 120.000

XO 1078.00 1080.00 1123.10 1180.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1460.00

PHI

90.000 -.0160 .0377 -.0377 -.0315 -.0292  
 91.000 .0372 .0345 -.0301 -.0307  
 95.000 .0394 .0315 .4057 .0307  
 97.000 .0392 .0427 .0392 .0299 -.0293 -.0318  
 98.000 .0383 .0304  
 70.000 .0379 .0458 .0424 .0395 .0293 -.0321  
 90.000 .0265 .0423 .0448 .0385 .0263 -.0345  
 92.500 .0289 .0365  
 95.000 .0126 .0365  
 98.000 .0386 .0386  
 100.000 .0126 .0200 .0078 -.0034  
 120.000 .1596 .0038 -.0204 -.0308  
 140.000 .0390 .0386 -.0403 -.0370  
 150.000 .0316 .0316 -.0413 -.0337 -.0382

PARAMETRIC DATA

AMES 3.3-194 0403 010 RCS ON FUSELAGE SURFACE

( 28 ) ( 28 ) ( 28 )

## REFERENCE DATA

[illegible]

### PARAMETRIC DATA

MACM ( 1 ) =	5.280	ALPHA ( 1 ) =	21.313	RM/L	=	3.329	Q	=	7.308	P	=	.408	PT	=	206.020
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## SECTION ( ) FUSE: AGE

## DEPENDENT VARIABLE: ECP

1990.00	400.00	450.00	500.00	560.00	625.00	700.00	792.00	900.00	600.00	699.90	936.10	990.00	990.00
1990.00	400.00	450.00	500.00	560.00	625.00	700.00	792.00	900.00	600.00	699.90	936.10	990.00	990.00

[illegible][illegible][illegible]



04472 : 9 920 71

AMES 3 9--96 GARS CID ECS ON FUSELAGE SURFACE  
(NEWDSY) ( 20 AUG 74 )

REFERENCE DATA

BOEP	=	2690.0000	38 PT.	WMP	=	.0000	IN.	BETA	=	.000	ELEVOM	=	-9.038
BOEP	=	474.0000	IM.	YBP	=	.0000	IN.	ALROM	=	.000	SPOBRK	=	.030
BOEP	=	936.0000	IM.	ZBP	=	.0000	IN.	FJDOER	=	.000	BOFLAP	=	16.338
CALZ	=				=	.0150							

[illegible]

SECTION (1) FUGITIVE

## DEPENDENT VARIABLE CP

YTD	335.00	400.00	450.00	500.00	560.00	625.00	725.00	760.00	792.00	800.00	860.00	899.90	936.10	960.00	993.20
PMI															
60.000	.0002	1.154	.0996	.0715	.0200	-.0198								.0376	
65.000				.0793	.0230	.0168	-.0359								
67.000								-.0445					-.0463		
70.000	.0873	.0986	.0910	.0660	.0215	.0101	-.0114								
75.000	.0467	.0805	.0818					-.0364	-.0449					-.0379	
80.000	.0283	.0935	.0777	.0370	.0155	.0105	.0105	.0160	-.0345					-.0444	
82.900								.2296							-.3422
85.000			.0832	.0518	.0135	.0094	.0075			.0082	.0075			-.0399	
90.000	.0073	.0210	.0416												
120.000	.0052	.0112													
1678.00	1090.00	1175.10	1140.00	1245.00	1300.00	1339.00	1374.00	1369.00	1374.00	1375.00	1379.00	1430.00	1460.00		

11

[illegible]

DATE 15 FEB 78 TABULATED PRESSURE DATA - 0403

AMES 3-3-194 0403 010 RCS OFF FUSELAGE ASPACE (REMOVED) 20 AUG 4

## REFERENCE DATA

STEP 1 2600 0000 30 FT. YMRP = .0000 IN.  
 STEP 2 474 0000 IN. YMRP = .0000 IN.  
 STEP 3 936 7000 IN. YMRP = .0000 IN.  
 SCALE = 0130

MACH (1) = 5.200 ALPHA (1) = 17.849 RM/L = 3.900 Q = 7.981 P = .411 PT = 298.928

## SECTION 111 FUSELAGE

## DEPENDENT VARIABLE CP

10 350.00 400.00 450.00 500.00 550.00 600.00 625.00 725.00 780.00 792.00 800.00 800.00 899.90 936.10 980.00 990.00

## PMI

60.000 .2612 .1137 .0951 .0656 .0165 .0046  
 65.000 .0608 .0149 .0018 .0034  
 67.000  
 70.000 .0987 .1000 .0874 .0571 .0118 .0012 .0011  
 75.000 .0641 .0919 .0843  
 80.000 .0674 .0799 .0709 .0500 .0056 .0075 .0047  
 82.500  
 85.000 .0745 .0466 .0049 .0015 .0015  
 90.000 .0473 .0557 .0655  
 120.000 .0406 .0516

20 1078.00 1080.00 1123.10 1180.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

## PMI

50.000  
 51.000  
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 70.000  
 75.000  
 80.000  
 82.500  
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## PARAMETRIC DATA

BETA = .000 ELEVON = -9.000  
 ALLRON = .000 SPDRK = .000  
 RUDDER = .000 DOFLAP = 16.300



AMES 3.5-194 0403 010 RCS OFF FUSELAGE SURFACE (REMOVED) ( 20 AUG 74 )

REFERENCE DATA

SREF : 2000.0000 SA.FT. XMRP : .0000 IN.  
 LREF : 474.0000 IN. YMRP : .0000 IN.  
 BRCP : 916.7000 IN. ZMRP : .0000 IN.  
 SCALE : .0150

PARAMETRIC DATA

BETA : .000 ELEVOM : -9.000  
 AILRON : .000 SPDRK : .000  
 RUDDER : .000 SDPLAP : 18.300

MACH ( 1 ) : 0.800 ALPHA ( 1 ) : 81.307 RW/L : 3.343 Q : 7.952 P : .411 PT : 299.340

SECTION ( 1 ) FUSELAGE DEPENDENT VARIABLE CP

XO 350.00 400.00 450.00 500.00 550.00 600.00 625.00 775.00 760.00 792.80 800.00 880.00 899.90 936.10 980.00 990.20

PHI

90.000 .2616 .1182 .0981 .0702 .0222 .0215  
 95.000 .0648 .0198 .0072 -.0149  
 97.000 .0039 .0003 .0000 .0161 .0037 .0125  
 70.000 .0680 .0038 .0039 .0516 .0092 .0044 .0014  
 90.000 .0469 .0668 .0774 .0516 .0092 .0044 .0014  
 82.500 .0680 .0484 .0672 .0021 .0000  
 90.000 .0275 .0386 .0547  
 120.000 .0233 .0345

XO 1076.00 1080.00 1123.10 1180.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

PHI

90.000  
 91.000  
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AMES 3-5-194 OARS QID RCS OFF FUSELAGE SURFACE (REMOVED) (20 AUG 74)

## REFERENCE DATA

REF = 9680 0000 50 FT. WARP = .0000 IN. BETA = .0000 ELEVOM = -3.000  
 REF = 474.0000 IN. WARP = .0000 IN. ALLROM = .0000 SPORA = .000  
 REF = 036.0000 IN. WARP = .0000 IN. RUDDER = .0000 BOFLAP = 16.303  
 SCALE = .0150

MACH (1) = 3.200 ALPHA (1) = 25.799 RM/L = 3.293 0 = 7.966 P = .411 PT = 303.800

## SECTION (1) FUSELAGE

## DEPENDENT VARIABLE CP

X 395.00 450.00 450.00 450.00 500.00 500.00 560.00 625.00 725.00 760.00 792.00 800.00 800.00 800.00 880.00 936.10 980.00 980.00

PMI  
 62.000 .8380 .1160 .1010 .0725 .0158 -.0198  
 63.000 .5699 .0228 .0165 -.0365  
 67.000  
 70.000 .0679 .0000 .0934 .0656 .0226 .0098 -.0129  
 75.000 .0482 .0816 .0868  
 80.000 .0288 .0337 .0785 .0568 .0148 .0111 .0104  
 82.500  
 83.000 .0843 .0210 .0132 .0092 .0079  
 80.000 .0075 .0225 .0425  
 120.000 .0069 .0126

X 1076.00 1080.00 1080.00 1125.10 1160.00 1245.00 1300.00 1339.00 1369.00 1374.00 1375.00 1379.00 1430.00 1480.00

PMI  
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## PARAMETRIC DATA

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